

# Panasonic

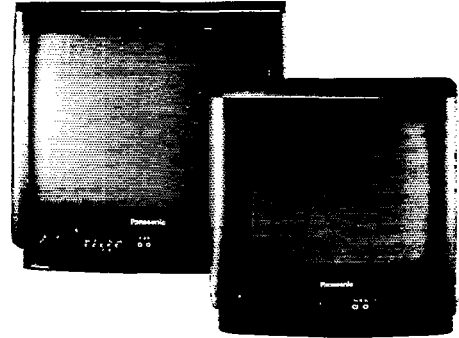
## Service Manual

Colour Television

Z-5 Chassis

TX-21S1T / TC-21S1R

TX-14S1T / TC-14S1R



**Power Source :** 220 / 240 V AC 50Hz.

**Power Consumption :** 58W TX-21S1T / TC-21S1R  
39W TX-14S1T / TC-14S1R

**Aerial Impedance :** 75Ω unbalanced, Coaxial Type

**Receiving System :** PAL - I (UHF)  
PAL - 60

**Receiving Channels :** UHF E21 - E69

**Intermediate Frequency :** Video 39.5 MHz  
Sound 33.5 MHz  
Colour 35.07 MHz PAL

### Video/Audio Terminals

|         |                 |                 |
|---------|-----------------|-----------------|
| AV1 IN  | Video (21 pin ) | 1 Vp-p 75Ω      |
|         | Audio (21 pin ) | 500 mV rms 10kΩ |
|         | RGB (21 pin )   |                 |
| AV1 OUT | Video (21 pin ) | 1 Vp-p 75Ω      |
|         | Audio (21 pin ) | 500 mV rms 1kΩ  |
| RCA IN  | Video           | 1 Vp-p 75Ω      |
| RCA IN  | Audio           | 500 mVrms, 10KΩ |

**Picture Tube :** A51EAL55X13  
51 cm V 90°  
measured diagonally  
A34EAC01X13  
36 cm V 90°  
measured diagonally.

**Audio Output :** 5 Watt

**Speaker** 8Ω, Rectangular

**Accessories supplied :** Remote Control  
2 x R6(UM3) Batteries

**High Voltage :** (zero beam current)

| 21S1 Series | 14S1 Series |
|-------------|-------------|
| 26.4Kv      | 21.5Kv      |

| 21S1 Series | 14S1 Series |
|-------------|-------------|
|-------------|-------------|

| Dimensions : | 21S1 Series | 14S1 Series |
|--------------|-------------|-------------|
| Height :     | 477mm       | 364mm       |
| Width :      | 518mm       | 389mm       |
| Depth :      | 478mm       | 384mm       |

| 21S1 Series | 14S1 Series |
|-------------|-------------|
|-------------|-------------|

|                   |      |      |
|-------------------|------|------|
| <b>Net Weight</b> | 21Kg | 10Kg |
|-------------------|------|------|

Specifications are subject to change without notice.  
Weight and dimensions shown are approximate.

### IMPORTANT

This receiver uses a HOT chassis, after service please ensure that the chassis is returned to its correct position.  
Particular care being taken to the position of the customer controls.  
Failure to do so could endanger customer safety.

**Panasonic (U.K.) LTD.**

WILLOUGHBY ROAD,  
BRACKNELL,  
BERKS,  
RG12 8FT.

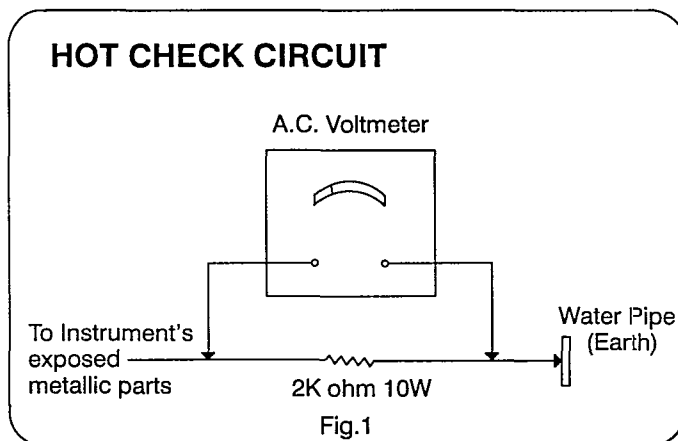
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## Safety Precautions

### General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 26.4Kv kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



### Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M  $\Omega$  and 20M  $\Omega$ . When the exposed metal does not have a return path to the chassis the reading must be infinite.

### Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.

### X-Radiation Warning

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 28.0 kV (21S1 Series) and 23kV (14S1 Series) without causing X-Radiation.

**NOTE :** It is important to use an accurate periodically calibrated high voltage meter

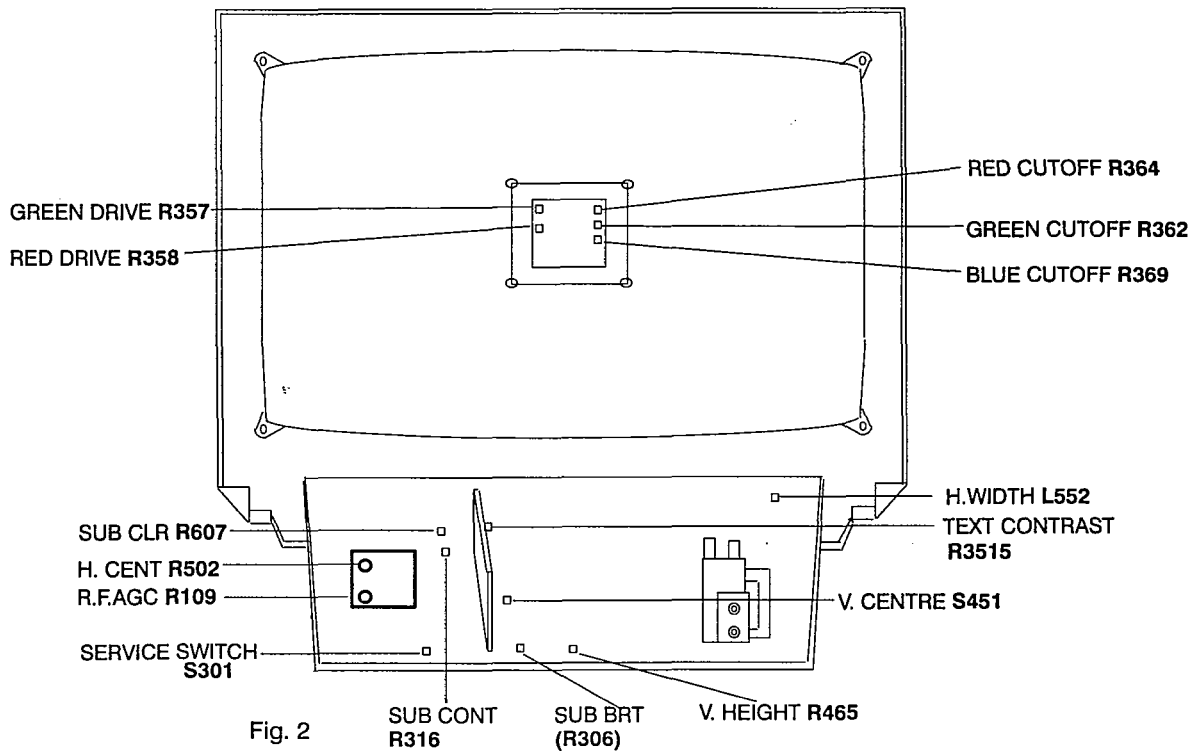
1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate:—  
 26.4Kv  $\pm$  1.5 kV (21S1 Series)  
 21.5Kv  $\pm$  1.5 kV (14S1 Series)  
 if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent an X-Radiation possibility, it is essential to use the specified tube.

## SHUT DOWN CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

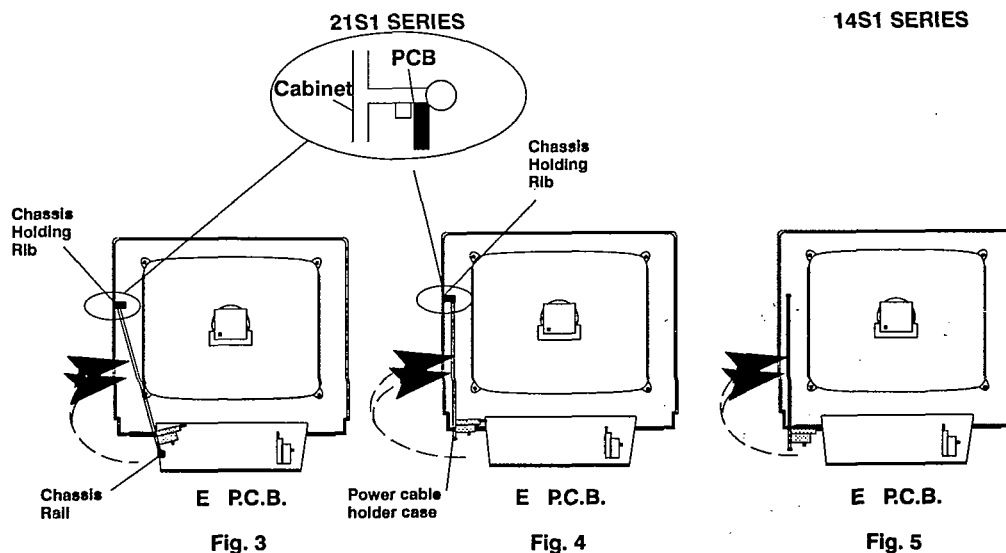
1. Receive the Phillips pattern.
2. Check that the shut-down circuit functions when -60V is applied to TPE40, but does not function when -40V is applied.

## Location Of Controls



## How to move the chassis into the Service position

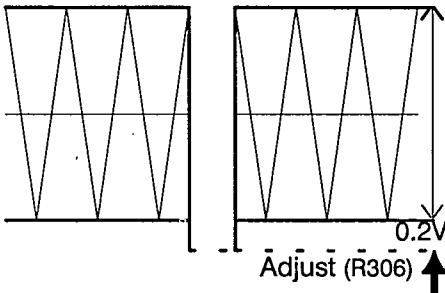
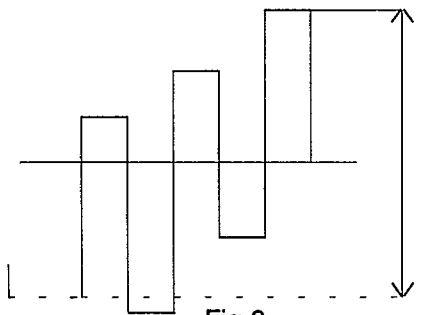
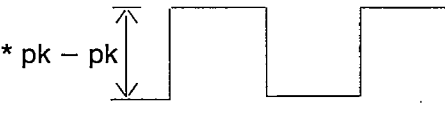
1. Hold and lift the rear of the E- PCB chassis and gently pull the chassis toward you.
2. Release the respective wiring clips and rotate the chassis clockwise.
  - For the 21" model,
    - a) Place the lower edge of the chassis against the 'L' shaped stopper located in the chassis rail whilst sliding the upper edge of the board into the chassis holding rib.
  - OR
    - b) Slide the lower edge of the chassis into the power cable holder case whilst sliding the upper edge of the board into the chassis holding rib.
  - For the 14" model
    - a) Slide the lower edge of the chassis into the power cable holder case whilst sliding the upper edge of the board into the chassis holding rib.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.



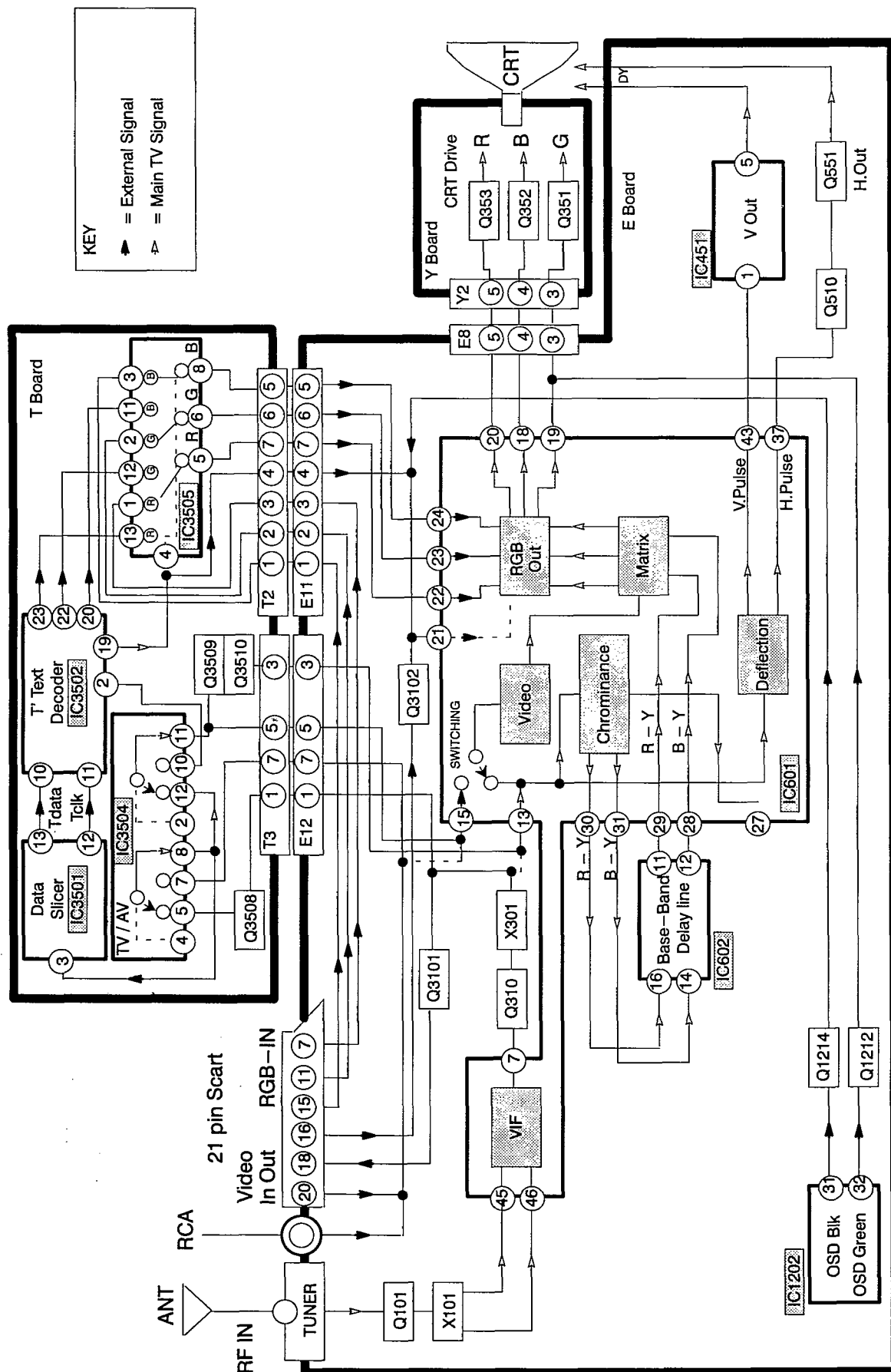
## ADJUSTMENTS

| ITEM/PREPARATION                                                                                                                                                                     | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |                    |                    |   |                    |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------|--------------------|---|--------------------|--|--|---------|------|---|-----|------|---|-------|---------|--------|---|------|------|---|------|---------|-----|---|----|-------|---|----|--------|-----|---|----|-----|---|----|--------|-------|---|------|-------|---|------|--------|-------|---|------|-------|---|------|--------|-------|---|------|-------|---|------|--------|-------|---|------|-------|---|------|--------|------|---|------|------|---|------|--------|------|---|------|------|---|------|---------|-----|---|------|-----|---|------|
| <b>B VOLTAGE</b><br>1. Operate the TV set.<br>2. Set controls :<br>Bright (R318) ..... minimum<br>Sub Bright (R306) ..... minimum<br>Volume ..... minimum<br>Beam Current ..... Zero | 1. Confirm the indicated test points for the specified voltage.<br><br><table><tr><td></td><td colspan="3"><b>21S1 Series</b></td><td colspan="3"><b>14S1 Series</b></td></tr><tr><td>TPE 10:</td><td>190V</td><td>±</td><td>10V</td><td>135V</td><td>±</td><td>10.0V</td></tr><tr><td>TPE 13:</td><td>124.5V</td><td>±</td><td>1.5V</td><td>103V</td><td>±</td><td>1.5V</td></tr><tr><td>TPE 11:</td><td>31V</td><td>±</td><td>2V</td><td>27.0V</td><td>±</td><td>2V</td></tr><tr><td>TPE 1:</td><td>11V</td><td>±</td><td>1V</td><td>11V</td><td>±</td><td>1V</td></tr><tr><td>TPE 6:</td><td>28.0V</td><td>±</td><td>1.5V</td><td>26.7V</td><td>±</td><td>1.5V</td></tr><tr><td>TPE 9:</td><td>23.0V</td><td>±</td><td>1.0V</td><td>23.3V</td><td>±</td><td>1.0V</td></tr><tr><td>TPE 4:</td><td>16.3V</td><td>±</td><td>1.0V</td><td>16.0V</td><td>±</td><td>1.0V</td></tr><tr><td>TPE 5:</td><td>12.0V</td><td>±</td><td>1.0V</td><td>12.0V</td><td>±</td><td>1.0V</td></tr><tr><td>TPE 3:</td><td>8.0V</td><td>±</td><td>1.0V</td><td>8.0V</td><td>±</td><td>1.0V</td></tr><tr><td>TPE 2:</td><td>5.0V</td><td>±</td><td>0.3V</td><td>5.0V</td><td>±</td><td>0.3V</td></tr><tr><td>TPE 14:</td><td>30V</td><td>±</td><td>2.5V</td><td>30V</td><td>±</td><td>2.5V</td></tr></table> |   | <b>21S1 Series</b> |                    |   | <b>14S1 Series</b> |  |  | TPE 10: | 190V | ± | 10V | 135V | ± | 10.0V | TPE 13: | 124.5V | ± | 1.5V | 103V | ± | 1.5V | TPE 11: | 31V | ± | 2V | 27.0V | ± | 2V | TPE 1: | 11V | ± | 1V | 11V | ± | 1V | TPE 6: | 28.0V | ± | 1.5V | 26.7V | ± | 1.5V | TPE 9: | 23.0V | ± | 1.0V | 23.3V | ± | 1.0V | TPE 4: | 16.3V | ± | 1.0V | 16.0V | ± | 1.0V | TPE 5: | 12.0V | ± | 1.0V | 12.0V | ± | 1.0V | TPE 3: | 8.0V | ± | 1.0V | 8.0V | ± | 1.0V | TPE 2: | 5.0V | ± | 0.3V | 5.0V | ± | 0.3V | TPE 14: | 30V | ± | 2.5V | 30V | ± | 2.5V |
|                                                                                                                                                                                      | <b>21S1 Series</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |                    | <b>14S1 Series</b> |   |                    |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 10:                                                                                                                                                                              | 190V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± | 10V                | 135V               | ± | 10.0V              |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 13:                                                                                                                                                                              | 124.5V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ± | 1.5V               | 103V               | ± | 1.5V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 11:                                                                                                                                                                              | 31V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ± | 2V                 | 27.0V              | ± | 2V                 |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 1:                                                                                                                                                                               | 11V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ± | 1V                 | 11V                | ± | 1V                 |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 6:                                                                                                                                                                               | 28.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± | 1.5V               | 26.7V              | ± | 1.5V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 9:                                                                                                                                                                               | 23.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± | 1.0V               | 23.3V              | ± | 1.0V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 4:                                                                                                                                                                               | 16.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± | 1.0V               | 16.0V              | ± | 1.0V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 5:                                                                                                                                                                               | 12.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± | 1.0V               | 12.0V              | ± | 1.0V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 3:                                                                                                                                                                               | 8.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± | 1.0V               | 8.0V               | ± | 1.0V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 2:                                                                                                                                                                               | 5.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± | 0.3V               | 5.0V               | ± | 0.3V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| TPE 14:                                                                                                                                                                              | 30V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ± | 2.5V               | 30V                | ± | 2.5V               |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| <b>AFC</b><br><br>1. Operate the TV set.<br><br>2. Connect a DVM to TPE58.                                                                                                           | 1. Apply 39.5 Mhz continuous wave to TPE54 (IF pin of Tuner) (0.5Vp—p/75Ω)<br>2. Adjust L104 so that voltage at TPE27 becomes 2.5±0.1V.<br>3. Change the frequency and confirm the voltage as shown below.<br>+ 100kHz:           Less than 1.0V<br>— 100kHz:           more than 4.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |                    |                    |   |                    |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| <b>RF AGC</b><br><br>1. Receive the Philips pattern.<br><br>2. Set the input level to 60 ± 2 dB (75Ω open).<br><br>3. Connect an oscilloscope to TPE59 (RF AGC terminal).            | 1. Turn RF AGC control R109 fully counterclockwise.<br>2. Slowly turn RF AGC control clockwise to set it at the point just before voltage at TPE28 starts to fall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |                    |                    |   |                    |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |
| <b>HIGH VOLTAGE</b><br><br>1. Receive a crosshatch pattern.<br><br>2. Set Contrast, Bright and Sub—Bright controls to their minimum positions (Zero beam current).                   | 1. Connect a high voltage meter (Electrostatic type) to an anode of the picture tube.<br>2. Confirm that the high voltage is within a range of<br><b>21S1 Series</b> <b>14S1 Series</b><br>26.4Kv±1.5kV                      21.5Kv±1.5kV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                    |                    |   |                    |  |  |         |      |   |     |      |   |       |         |        |   |      |      |   |      |         |     |   |    |       |   |    |        |     |   |    |     |   |    |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |       |   |      |       |   |      |        |      |   |      |      |   |      |        |      |   |      |      |   |      |         |     |   |      |     |   |      |

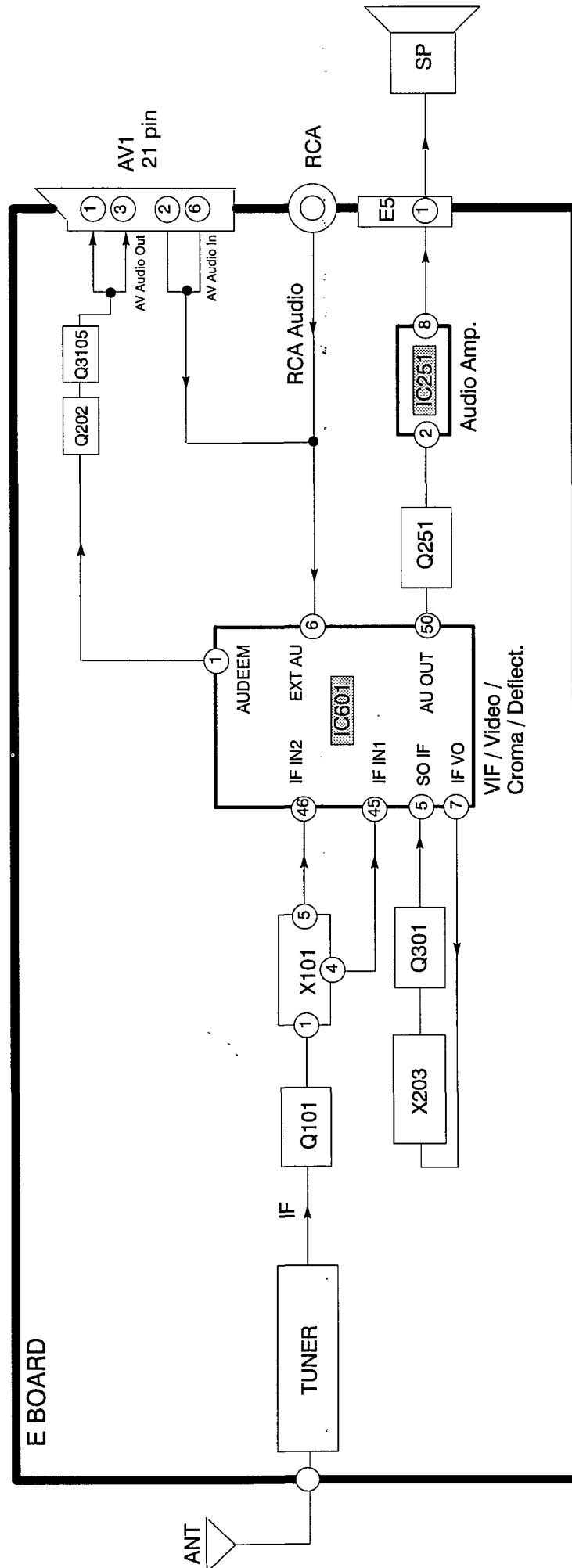
## ADJUSTMENTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                              |                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>SUB CONTRAST</b></p> <ol style="list-style-type: none"> <li>1. Receive a Philips pattern.<br/>(Input level 75dB).</li> <li>2. Connect an oscilloscope to <b>TPY1</b>.</li> <li>3. Set controls to : <ul style="list-style-type: none"> <li>Brightness            minimum</li> <li>Contrast                maximum</li> <li>Colour                  minimum</li> <li>Sharpness            centre</li> <li>Pix                      minimum</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li>1. Adjust Sub brightness (<b>R306</b>) to set the black level to 0.2V.</li> <li>2. Adjust the Sub contrast (<b>R316</b>) to set the drive voltage to 2.8V+/- 0.1V-p.</li> </ol>                                       | <p>Adjust R316<br/>2.8V+/-0.1V-p</p>  <p>Fig.5</p> |
| <p><b>SUB COLOUR</b></p> <ol style="list-style-type: none"> <li>1. Receive a PAL colour bar pattern.</li> <li>2. Set controls to: <ul style="list-style-type: none"> <li>Brightness            minimum</li> <li>Contrast                maximum</li> <li>Sub colour            centre</li> <li>Colour                  centre</li> <li>Sharpness            minimum</li> </ul> </li> <li>3. Connect an oscilloscope to <b>TPE15</b>.</li> </ol>                        | <ol style="list-style-type: none"> <li>1. Connect a short jumper between <b>TPE6</b> and earth.</li> <li>2. Adjust the sub colour (<b>R607</b>) for 1.6Vp-p +/- 0.1V at <b>TPE15</b> as shown in Fig.6.</li> <li>3. Remove the earth jumper wire.</li> </ol> | <p>1.6Vp-p +/- 0.1V</p>  <p>Fig.6</p>             |
| <p><b>TEXT CONTRAST</b></p> <ol style="list-style-type: none"> <li>1. Receive a teletext signal.</li> <li>2. Connect an oscilloscope T2 pin 5.</li> </ol>                                                                                                                                                                                                                                                                                                              | <ol style="list-style-type: none"> <li>1. Adjust <b>R3515</b> to check the maximum level &gt; 1.5v and a minimum level &lt; 0.6v.</li> <li>2. . Adjust R3515 to centre. ( pk - pk * )</li> </ol>                                                             | <p>* pk - pk</p>  <p>Fig.7.</p>                  |

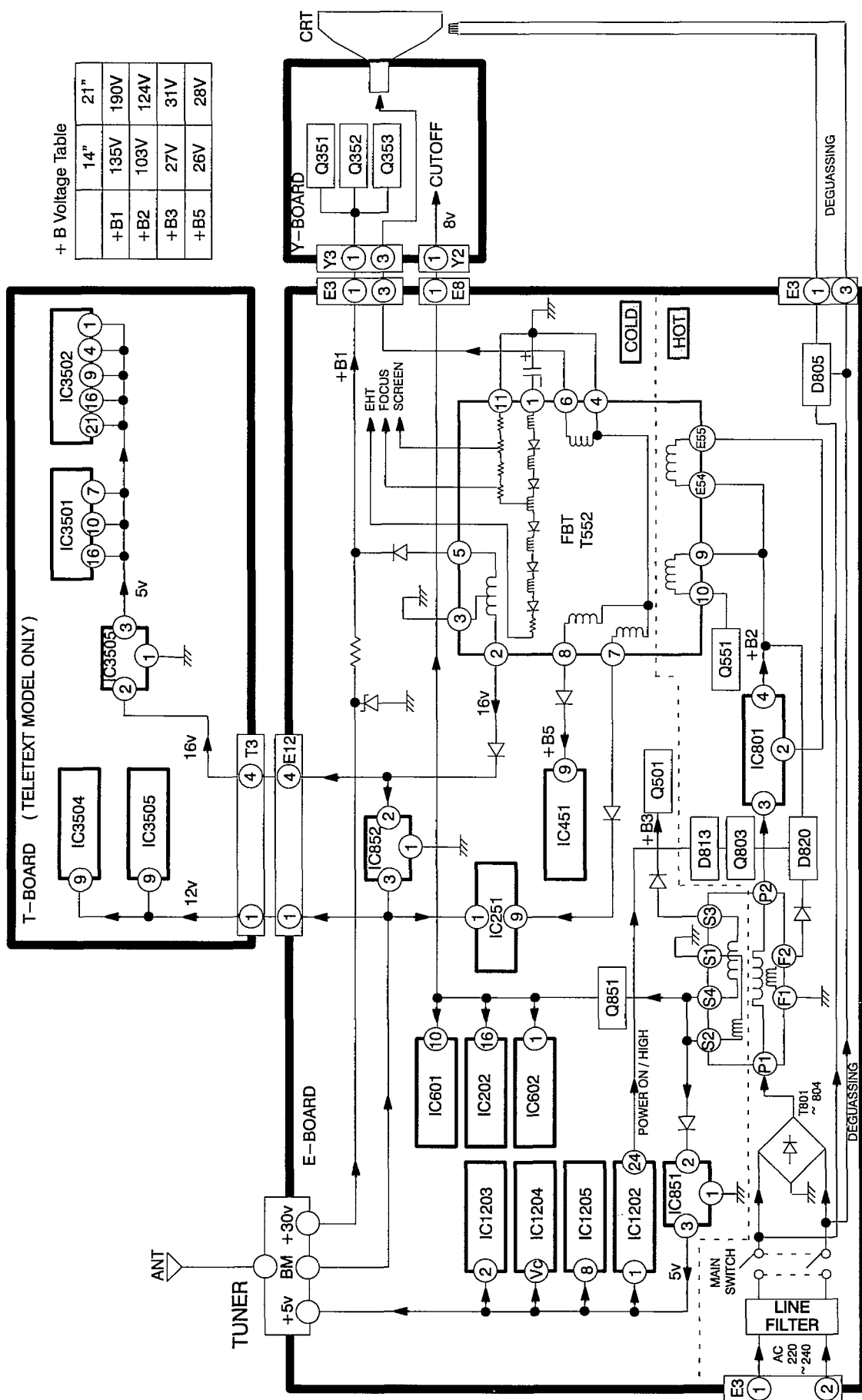
# VIDEO SIGNAL BLOCK DIAGRAM



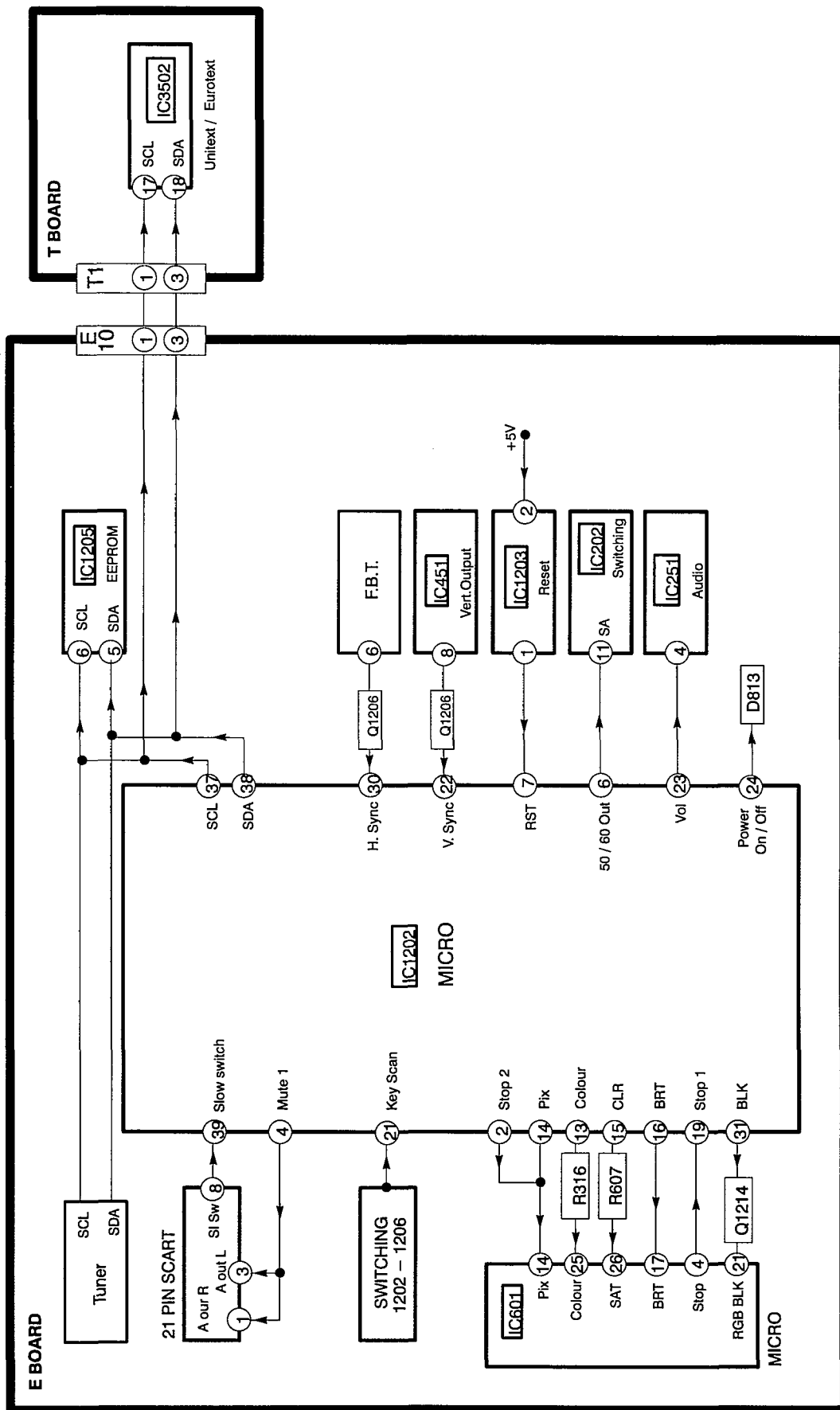
# AUDIO LINE BLOCK DIAGRAM



# POWER SUPPLY BLOCK DIAGRAM



## CONTROL LINE BLOCK DIAGRAM

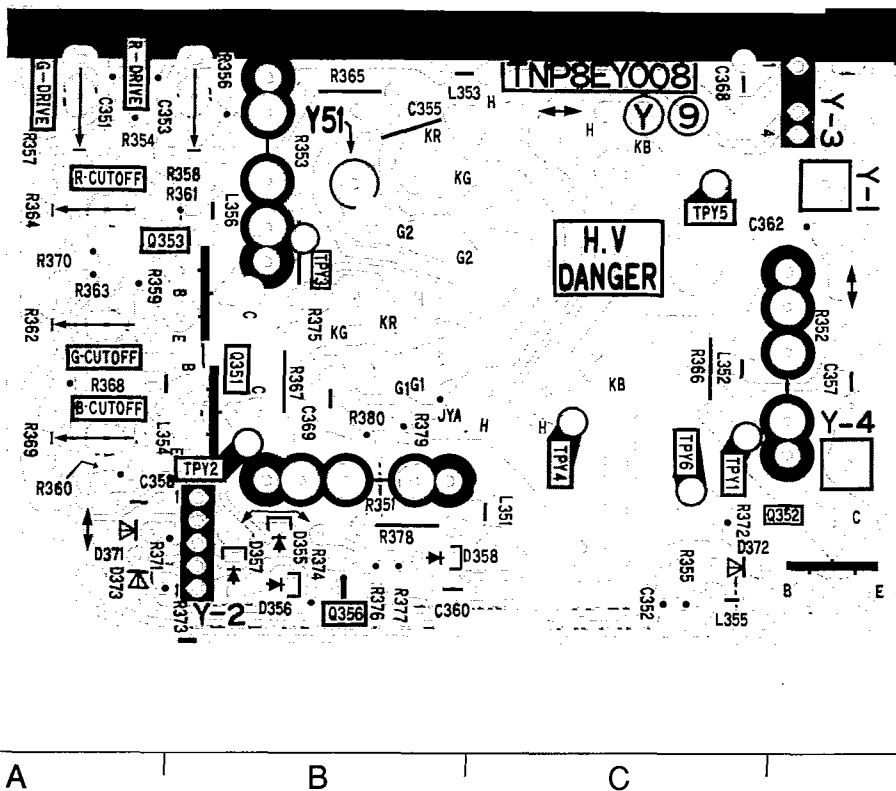


# CONDUCTOR VIEWS

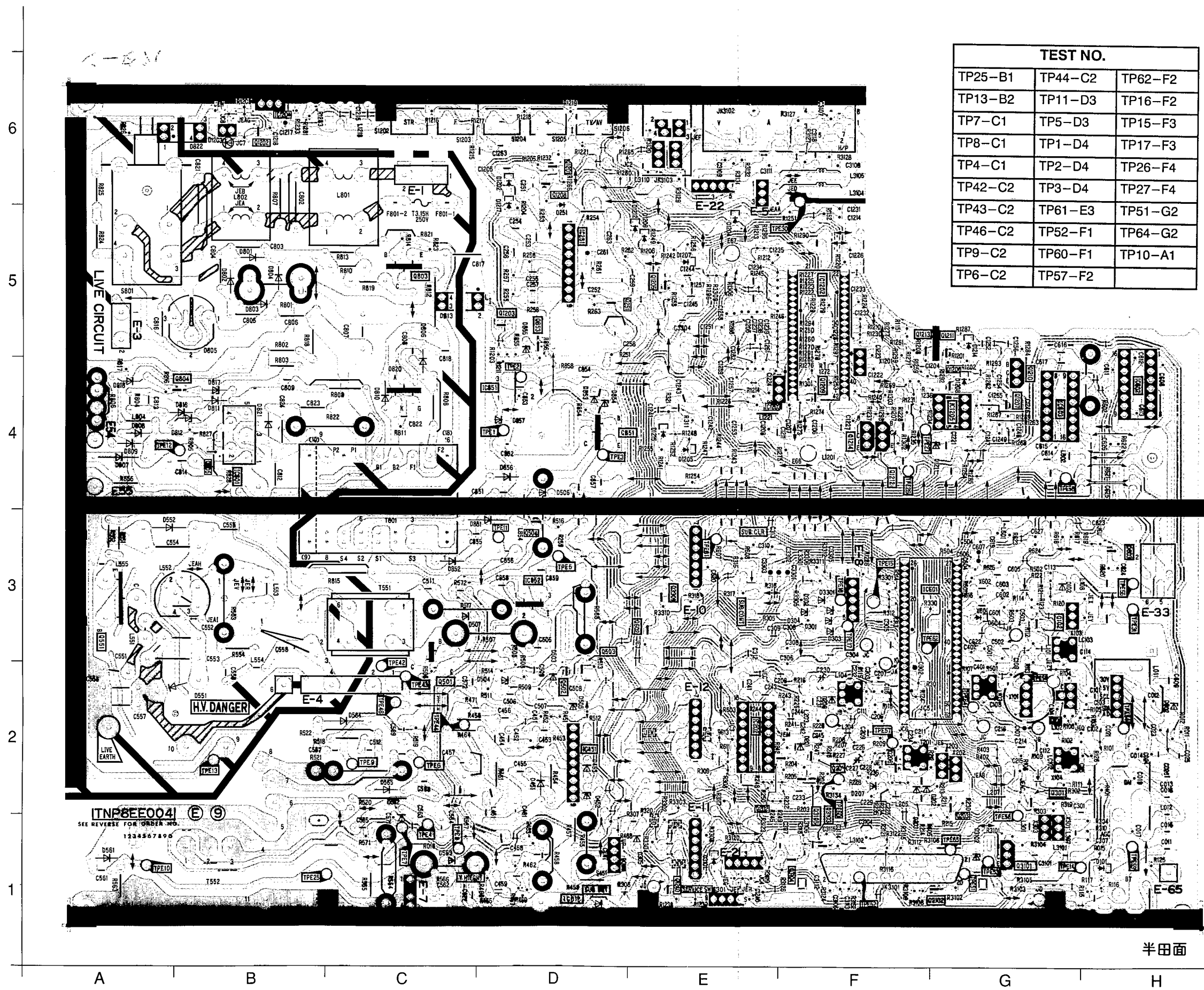
## Y BOARD TNP8EY008

### Y Board.

| DIODES  | TRANS.  | TEST NO. |
|---------|---------|----------|
| D373-A1 | Q353-A2 | TPY5-C2  |
| D371-A1 | Q351-B2 | TPY2-B1  |
| D357-B1 | Q352-D1 | TPY3-B2  |
| D355-B1 | Q356-B1 | TPY4-C2  |
| D358-C1 |         | TPY6-C2  |
| D372-C1 |         | TPY1-C2  |
| D356-B1 |         |          |



E BOARD TNP8EE004



| TEST NO. |         |         |
|----------|---------|---------|
| TP25-B1  | TP44-C2 | TP62-F2 |
| TP13-B2  | TP11-D3 | TP16-F2 |
| TP7-C1   | TP5-D3  | TP15-F3 |
| TP8-C1   | TP1-D4  | TP17-F3 |
| TP4-C1   | TP2-D4  | TP26-F4 |
| TP42-C2  | TP3-D4  | TP27-F4 |
| TP43-C2  | TP61-E3 | TP51-G2 |
| TP46-C2  | TP52-F1 | TP64-G2 |
| TP9-C2   | TP60-F1 | TP10-A1 |
| TP6-C2   | TP57-F2 |         |

E Board.

| DIODES   | D251-D5   | TRANS.   |
|----------|-----------|----------|
| D807-A4  | D1217-D5  | Q3301-E3 |
| D809-A4  | D1202-D6  | Q602-E3  |
| D808-A4  | D3101-E1  | Q1205-E5 |
| D816-A4  | D1205-E4  | Q3104-F1 |
| D805-A5  | D1215-E4  | Q3105-F1 |
| D551-D2  | D1212-E5  | Q3103-F1 |
| D817-D4  | D1209-E5  | Q201-F2  |
| D821-B4  | D203-F1   | Q206-F2  |
| D811-B4  | D303-F2   | Q1214-F4 |
| D801-B5  | D202-F2   | Q1212-F4 |
| D802-B5  | D203-F2   | Q1209-F4 |
| D803-B5  | D201-F2   | Q1213-F4 |
| D804-B5  | D206-F2   | Q203-G1  |
| D805-B5  | D301-F3   | Q3101-G1 |
| D822-B6  | D302-F3   | Q3102-G2 |
| D1203-B6 | D303-F3   | Q301-G1  |
| D563-C1  | D3301-F3  | Q203-G1  |
| D562-C1  | D3102-G1  | Q101-G2  |
| D564-C2  | D102-G3   | Q102-G3  |
| D565-C2  | D604-G3   | Q1206-G4 |
| D852-C3  | D1211-G4  | Q1210-G4 |
| D507-C3  | D1214-G4  | Q1207-G4 |
| D810-C4  | D101-H1   | Q603-H3  |
| D820-C4  | D602-H2   | Q551-A3  |
| D813-C5  | D561-A1   | Q1204-E4 |
| D305-D1  | I.C.'s    | Q804-A4  |
| D453-D2  | IC012-D1  | Q805-B4  |
| D451-D2  | IC451-D2  | Q1202-B6 |
| D505-D2  | IC852-D3  | Q501-C2  |
| D503-D2  | IC851-D4  | Q803-C5  |
| D504-D2  | IC251-D5  | Q502-D2  |
| D856-D4  | IC202-E2  | Q503-D2  |
| D506-D4  | IC601-F3  | Q503-D2  |
| D552-A3  | IC1202-F4 | Q851-D4  |
| D818-A4  | IC603-G4  | Q1203-D5 |
| D855-D4  | IC205-G4  | Q853-D5  |
| D853-D4  | IC602-H4  | Q1208-D5 |
| D854-D4  | IC801-B4  | Q1201-D6 |
| D1202-D5 | IC1204-B6 | Q202-E1  |

半田面

T Board.  
T BOARD TNP8ET001

| DIODE  | TRANS.    | TEST NO. |
|--------|-----------|----------|
| D01-B1 | Q05-B1    | TP14-D2  |
| D16-B1 | Q06-C1    | TP12-A3  |
| D02-B1 | Q11-A2    | TP27-C3  |
| D05-C1 | Q04-C2    | TP20-D3  |
| D07-C1 | Q03-C3    | TP23-B4  |
| D06-C1 | Q09-C3    | TP31-B4  |
| D15-C1 | Q08-D3    | TPP24-C4 |
| D03-D1 | Q10-D3    | TP32-C4  |
| D16-B1 | Q12-B4    | TP17-C4  |
| D12-C2 | Q13-D5    | TP26-D4  |
| D14-C2 | Q14-D5    | TP18-D4  |
| D09-C2 | I.C.'s    |          |
| D13-C2 | IC05-D1   |          |
| D08-C2 | IC06-B2   |          |
| D10-C2 | IC3502-B2 |          |
| D11-D4 | IC03-C3   |          |
|        | IC3501-C4 |          |
|        | IC04-D5   |          |

6

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A B C D E

SCHEMATIC DIAGRAM FOR MODELS  
TX-21S1T / TX-21S1R / TX-14S1T / TC-14S1R  
(Z-5 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  $\triangle$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

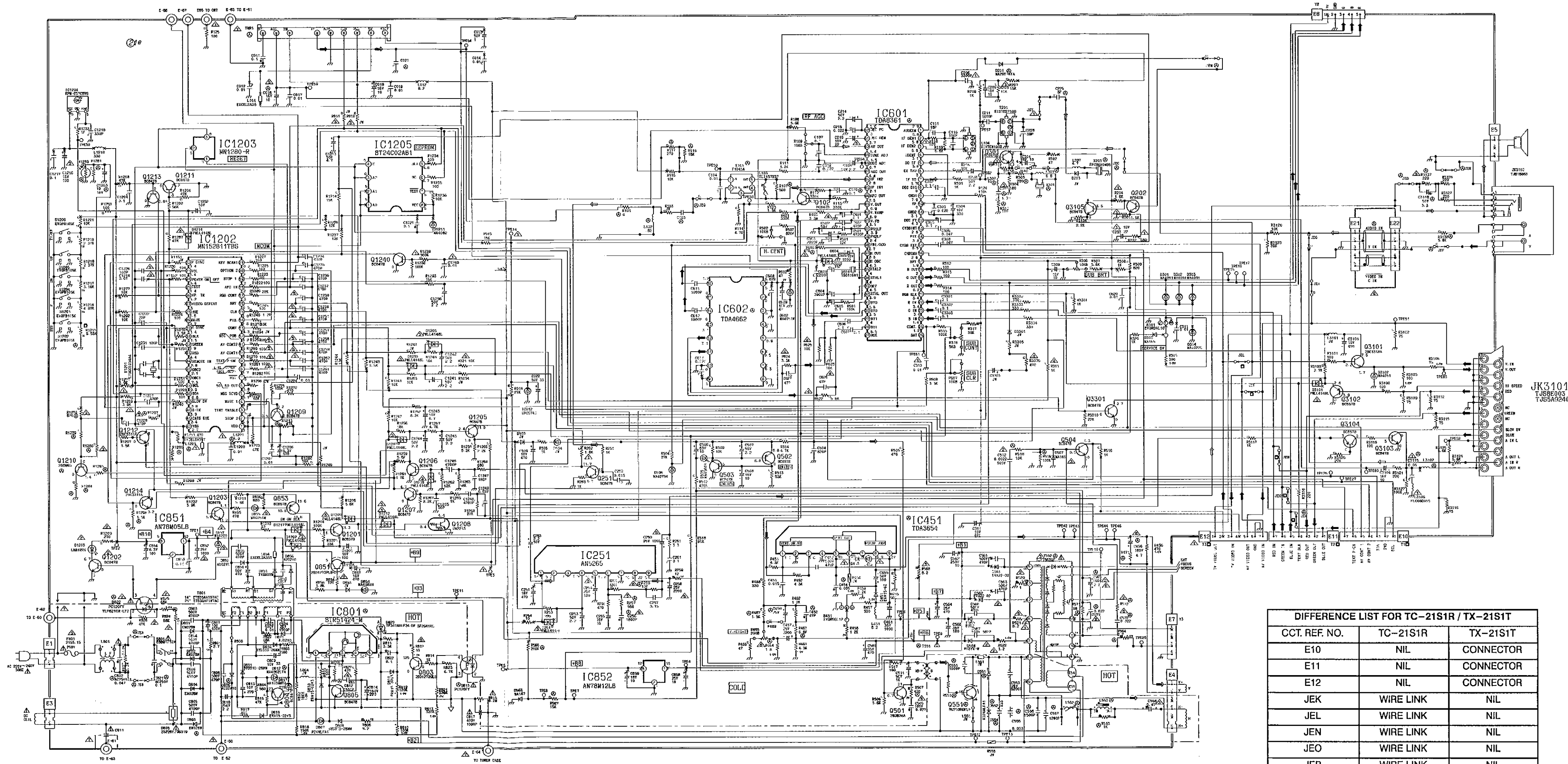
1. RESISTOR  
All resistors are carbon 1/4W resistor, unless marked.  
Unit of resistance is OHM ( $\Omega$ ) (K=1,000, M=1,000,000).  
 $\bullet$  : Nonflammable  
 $\odot$  : Metal Film  
 $\square$  : Wire Wound  
 $\boxtimes$  : Metal Oxide  
 $\oslash$  : Fuse  
 $\triangle$  : Solid
2. CAPACITOR  
All capacitors are ceramic 50V capacitors, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise stated.  
 $\oslash$  : Temperature Compensation  
 $\boxtimes$  : Polypropylene  
 $\pm$  : Electrolytic  
 $\textcircled{m}$  : Metallised Polyester  
 $\textcircled{M}$  : Polyester  
 $\textcircled{T}$  : Dipped Tantalum  
NP : Bipolar  
 $\textcircled{Z}$  : Z-Type
3. COIL  
Unit of inductance is  $\mu$ H, unless otherwise stated.
4. TEST POINT  
Test Point position  
Waveform Test Point position
5. EARTH SYMBOL  
Chassis Earth (Cold)  
Line Earth (Hot)
6. VOLTAGE MEASUREMENT  
Voltage is measured by a DC voltmeter. Measurement conditions are as follows:  
Power source ..... AC 220 / 240V, 50Hz  
Receiving Signal ..... Colour Bar signal (RF)  
All customer controls ..... Maximum position

7.  $\rightarrow$  Indicates the Video signal path  
 $\rightarrow$  Indicates the Audio signal path  
 $\rightarrow$  Indicates the Vertical/Horizontal signal path
8. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks:

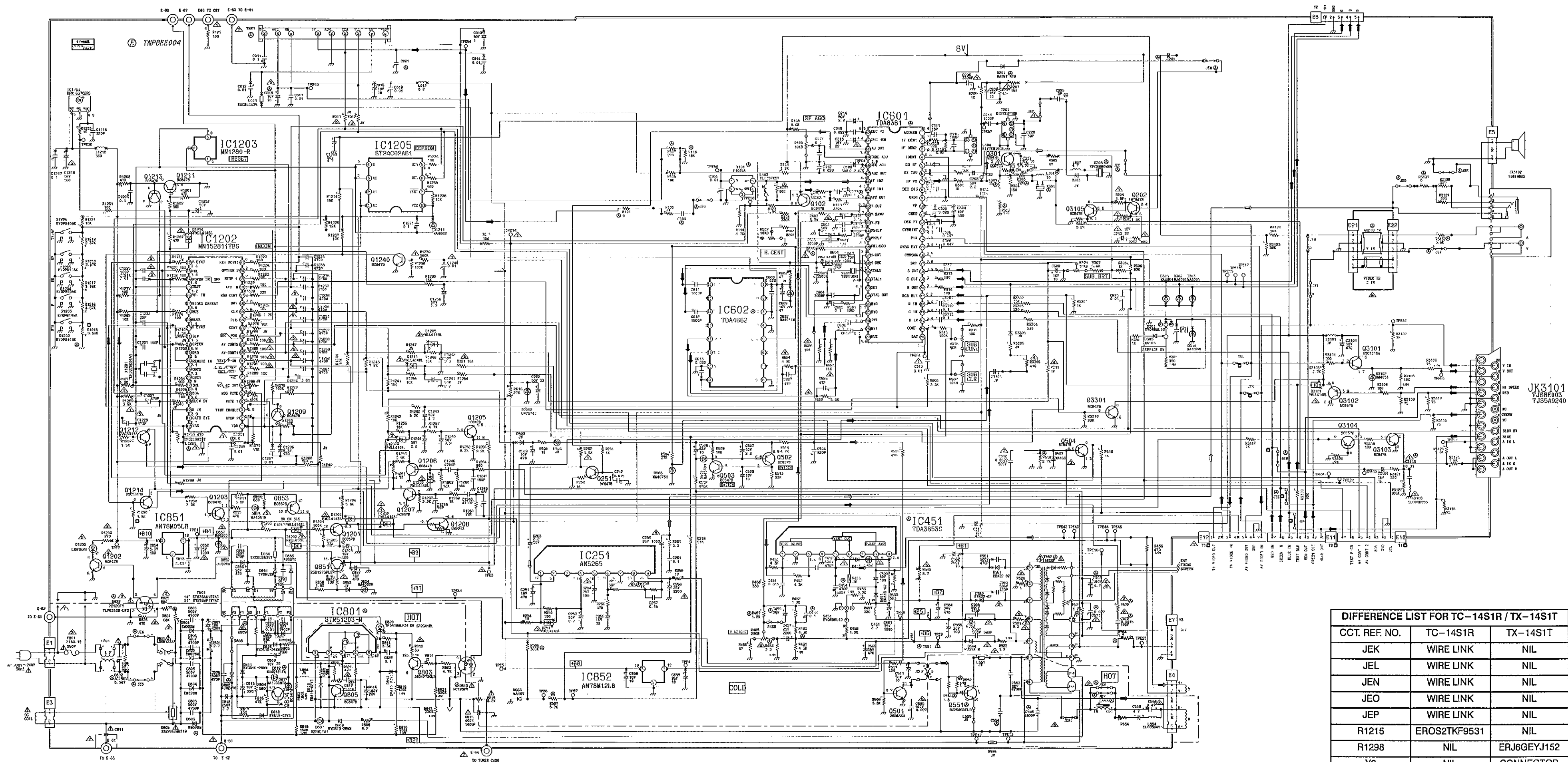
1. Care must be taken when servicing this receiver, as it uses a HOT chassis. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions. All circuits except the Audio, Video input circuits are HOT.
2. Precautions  
a. Do not touch the hot part, or the hot and cold parts of the chassis, at the same time, as you are liable to a shock hazard.  
b. Do not short-circuit the hot and cold circuits as electrical components may be damaged.  
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.  
d. Make sure to disconnect the power plug before removing the chassis.

## E BOARD TNP8EE004 TX-21S1T / TC-21S1R



| DIFFERENCE LIST FOR TC-21S1R / TX-21S1T |              |           |
|-----------------------------------------|--------------|-----------|
| CCT. REF. NO.                           | TC-21S1R     | TX-21S1T  |
| E10                                     | NIL          | CONNECTOR |
| E11                                     | NIL          | CONNECTOR |
| E12                                     | NIL          | CONNECTOR |
| JEK                                     | WIRE LINK    | NIL       |
| JEL                                     | WIRE LINK    | NIL       |
| JEO                                     | WIRE LINK    | NIL       |
| JEP                                     | WIRE LINK    | NIL       |
| R1215                                   | EROS2TKF9531 | NIL       |

# E BOARD TNP8EE004 TX-14S1T / TC-14S1R

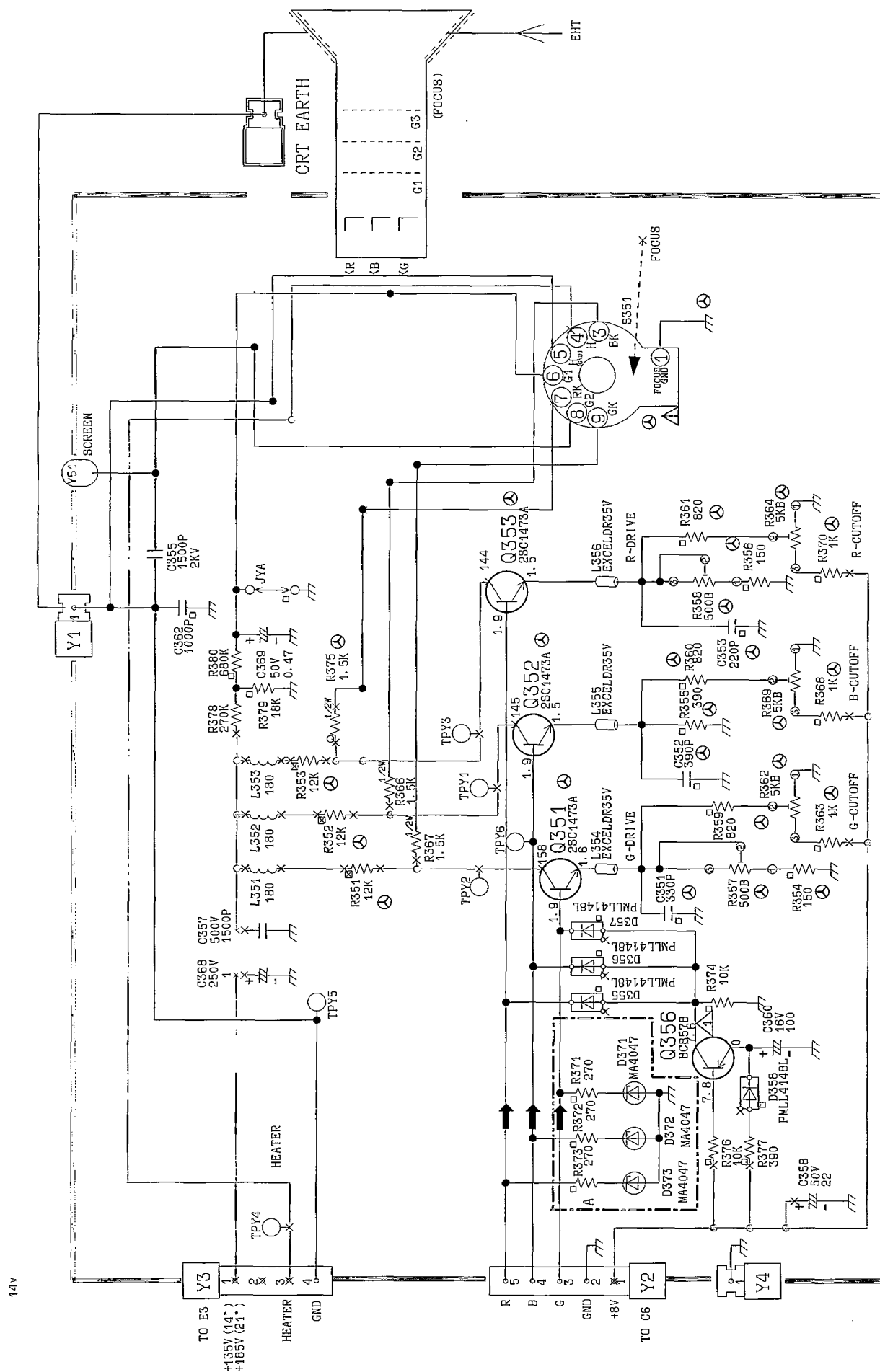


| DIFFERENCE LIST FOR TC-14S1R / TX-14S1T |              |             |
|-----------------------------------------|--------------|-------------|
| CCT. REF. NO.                           | TC-14S1R     | TX-14S1T    |
| JEK                                     | WIRE LINK    | NIL         |
| JEL                                     | WIRE LINK    | NIL         |
| JEN                                     | WIRE LINK    | NIL         |
| JEO                                     | WIRE LINK    | NIL         |
| JEP                                     | WIRE LINK    | NIL         |
| R1215                                   | EROS2TKF9531 | NIL         |
| R1298                                   | NIL          | ERJ6GEYJ152 |
| Y2                                      | NIL          | CONNECTOR   |

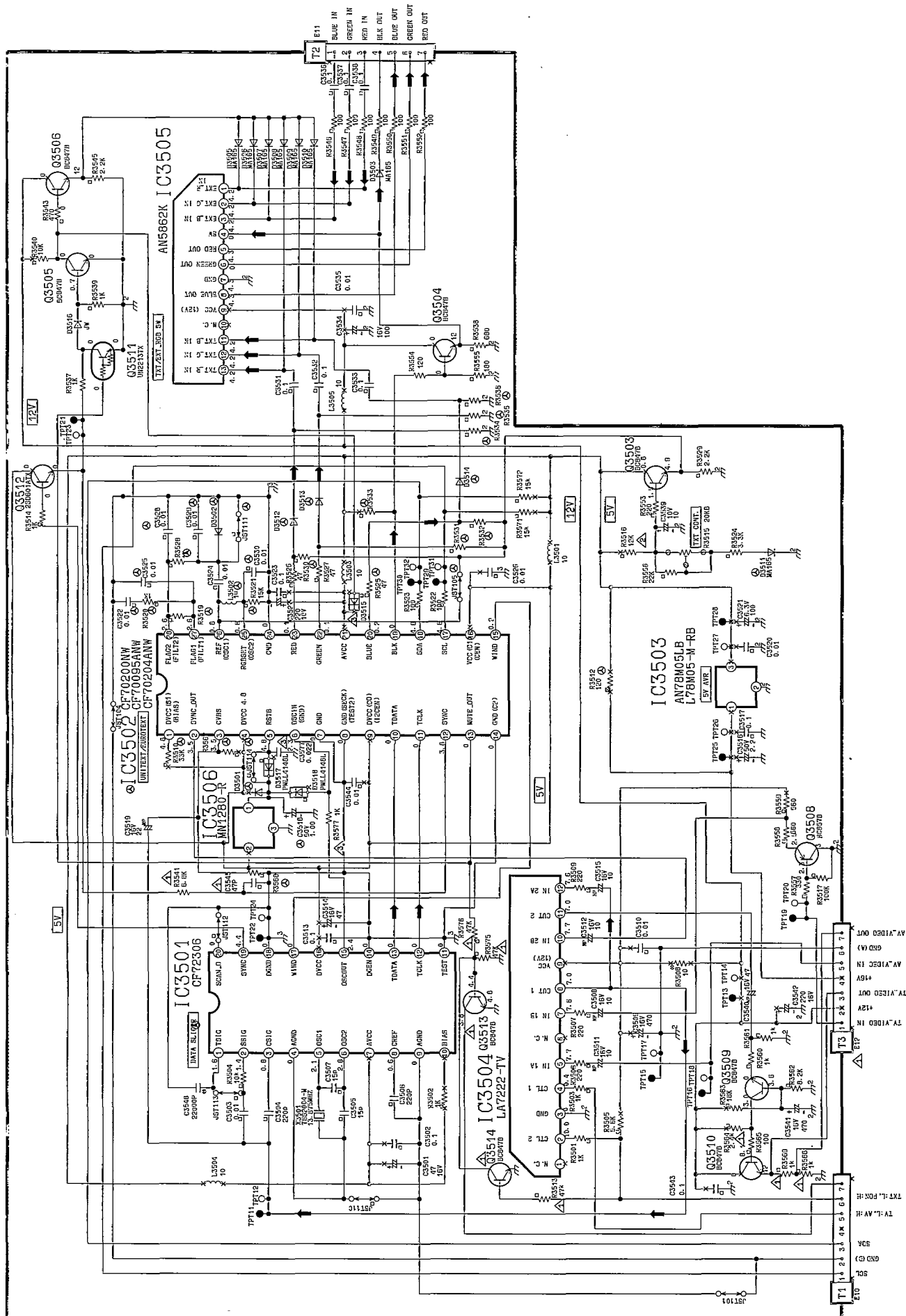
# Y BOARD TNP8EY008 TX-21S1T / TC-21S1R



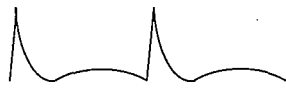
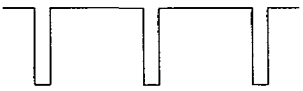
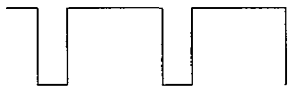
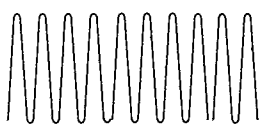
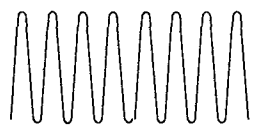
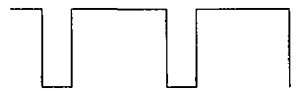
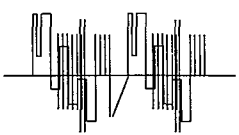
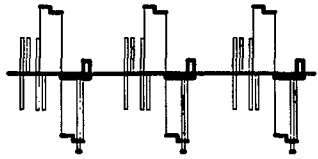
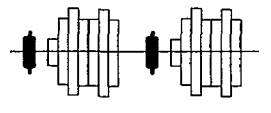
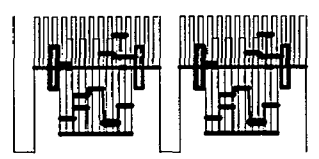
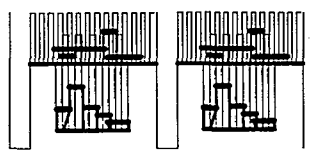
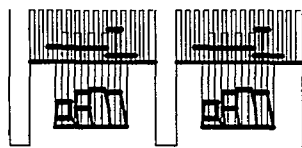
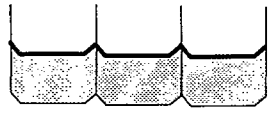
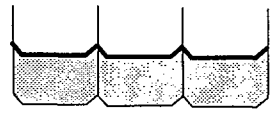
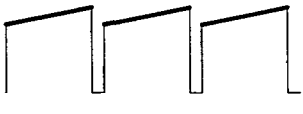
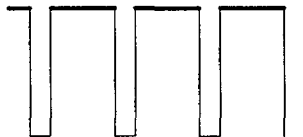
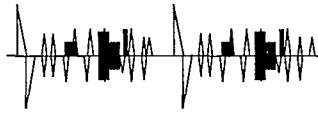
# Y BOARD TNP8EY008 TX-14S1T / TC-14S1R



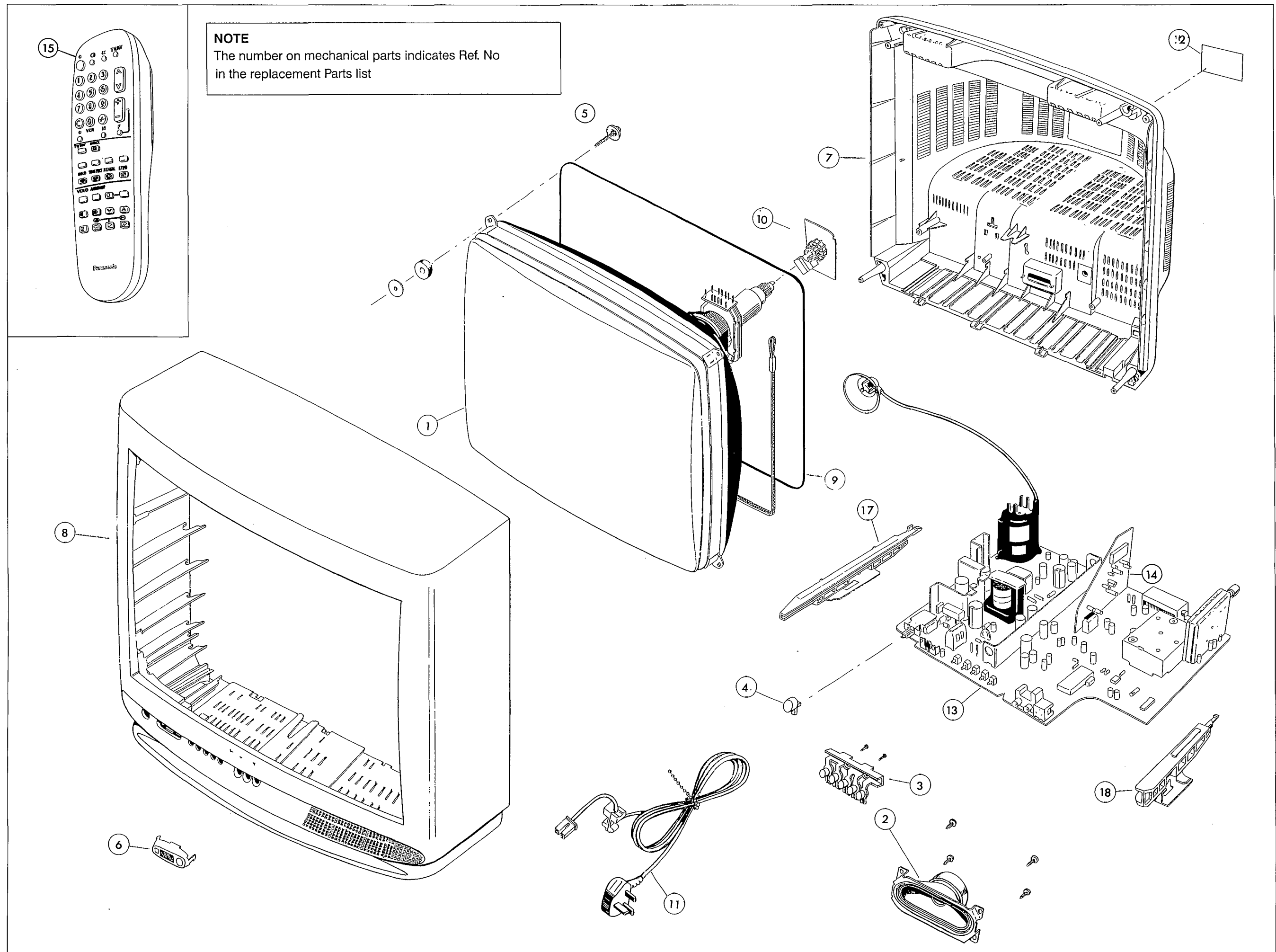
**T BOARD TNP8ET001**



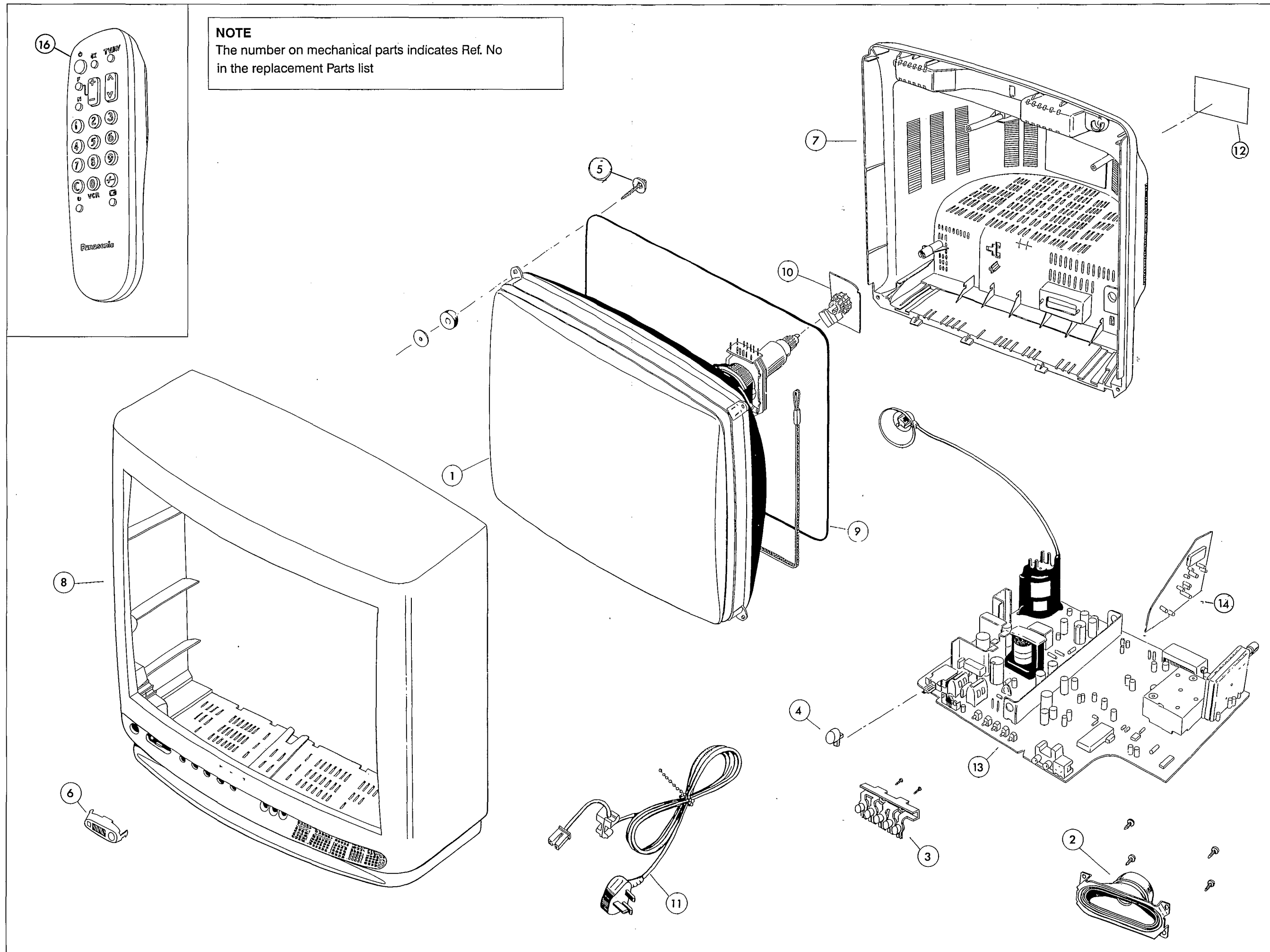
# WAVEFORM PATTERN TABLE.

|                                                                                                                              |                                                                                                                            |                                                                                                                              |                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <p>① Vert Out IC IN</p>  <p>IC451 pin 8</p> | <p>② H.Sync</p>  <p>IC1202 pin 30</p>     | <p>③ SCL</p>  <p>IC1202 pin 37</p>         | <p>④ OSC.2</p>  <p>IC 1202 pin 35</p>  |
| <p>⑤ OSC.1</p>  <p>IC1202 pin 36</p>        | <p>⑥ SOA</p>  <p>IC1202 pin 38</p>        | <p>⑦ Slow Switch</p>  <p>IC1202 pin 39</p> | <p>⑧ 'BY' Out</p>  <p>IC601 pin 31</p> |
| <p>⑨ 'RY' Out</p>  <p>IC601 pin 30</p>    | <p>⑩ IF VO</p>  <p>IC601 pin 7</p>      | <p>⑪ B Out</p>  <p>IC601 pin 18</p>      | <p>⑫ G Out</p>  <p>IC 601 pin 19</p> |
| <p>⑬ R Out</p>  <p>IC601 pin 20</p>       | <p>⑭ GREEN</p>  <p>IC3502 pin 22</p>    | <p>⑮ BLK</p>  <p>IC3502 pin 19</p>       | <p>⑯ BLUE</p>  <p>IC3502 pin 20</p>  |
| <p>⑰ RED</p>  <p>IC3502 pin 23</p>        | <p>⑱ Vert Drive</p>  <p>IC451 pin 1</p> | <p>⑲ H. Out</p>  <p>IC601 pin 37</p>     | <p>⑳ Hue</p>  <p>IC601 pin 27</p>    |

# PARTS LOCATION FOR TX-21S1T / TC-21S1R



# PARTS LOCATION FOR TX-14S1T / TC-14S1R



## REPLACEMENT PARTS LIST

### Important Safety Notice

Components identified by  $\Delta$  mark have special characteristics important for safety.  
 When replacing any of these components, use only manufacturer's specified parts.

### PARTS COMMON TO TC-14S1R AND TX-14S1T

| Ref No.                         | Part No.     | Description               | Ref No. | Part No.     | Description                  |
|---------------------------------|--------------|---------------------------|---------|--------------|------------------------------|
| <b>MISCELLANEOUS COMPONENTS</b> |              |                           |         |              |                              |
|                                 | TPC8E4418    | OUTER CARTON              | C251    | ECEA1CU471   | ELECT 16V 470 $\mu$ F        |
|                                 | TPD8E578     | TOP CUSHION               | C252    | ECUV1H153ZFX | S.M. CAP 50V 15nF            |
|                                 | TPD8E579     | BOTTOM CUSHION            | C253    | ECEA1HFS2R2  | S.M. CAP 50V 2.2 $\mu$ F     |
|                                 | UM-3DEP-2P   | BATTERY                   | C254    | ECEA1EU101   | ELECT 25V 100 $\mu$ F        |
| 01)                             | A34EAC01X13  | C.R.T $\Delta$            | C255    | ECEA1CGE330  | ELECT 16V 33 $\mu$ F         |
| 02)                             | EASG9D541A2  | SPEAKER                   | C257    | 222236516154 | FILM 160V 150nF              |
| 03)                             | TBX8E019     | KEY BUTTON                | C258    | ECEA1EGE222  | ELECT 25V 2200 $\mu$ F       |
| 04)                             | TBX8E018     | POWER BUTTON              | C259    | ECEA1EU102   | ELECT 25V 1000 $\mu$ F       |
| 05)                             | THE492-4     | CRT SCREW                 | C261    | ECUV1H104ZFW | S.M. CAP 50V 100nF           |
| 06)                             | TKP8E1107    | SMOKED PANEL              | C263    | ECEA1HU2R2   | ELECT 50V 2.2 $\mu$ F        |
| 07)                             | TKU8E00144   | REAR COVER $\Delta$       | C301    | ECEA1CU100   | ELECT 16V 10 $\mu$ F         |
| 08)                             | TKY8E028     | CABINET $\Delta$          | C302    | ECUV1H104ZFW | S.M. CAP 50V 100nF           |
| 09)                             | TLK8E05111   | COIL $\Delta$             | C303    | ECUV1H223ZFX | S.M. CAP 50V 22nF            |
| 10)                             | TNP8EY008AC  | Y P.C.B. $\Delta$         | C304    | ECEA1AU331   | ELECT 10V 330 $\mu$ F        |
| 11)                             | TSX8E0012    | MAINS LEAD $\Delta$       | C305    | ECQM1H104J   | FILM 50V 100nF               |
|                                 | TQB8E0839    | INSTRUCTION BOOK $\Delta$ | C306    | ECUV1H473ZFX | S.M. CAP 50V 47nF            |
|                                 | TSA8E001     | LOOP ANTENNA $\Delta$     | C307    | ECUV1H102KBX | S.M. CAP 50V 1nF             |
| F801                            | 2153.15H     | FUSE $\Delta$             | C308    | ECUV1H473ZFX | S.M. CAP 50V 47nF            |
| JK3101                          | TJS8E003     | SCART SOCKET              | C309    | ECEA1CU100   | ELECT 16V 10 $\mu$ F         |
| JK3102                          | TJB16663     | A.V. TERMINAL             | C311    | ECUV1H103ZFX | S.M. CAP 50V 10nF            |
| POE1                            | TMW8E015     | L.E.D. HOLDER             | C312    | ECEA1AU471   | ELECT 10V 470 $\mu$ F        |
| TNR1                            | ENV87877G3   | TUNER $\Delta$            | C313    | ECUV1H103ZFX | S.M. CAP 50V 10nF            |
|                                 | TBM153023    | PANASONIC BADGE           | C351    | ECUV1H331KBX | S.M. CAP 50V 330pF           |
| <b>CAPACITORS</b>               |              |                           | C352    | ECUV1H391KBX | S.M. CAP 50V 390pF           |
| C011                            | ECQM1H104J   | FILM 50V 100nF            | C353    | ECUV1H221KBX | S.M. CAP 50V 220pF           |
| C012                            | ECUV1H103ZFX | S.M. CAP 50V 10nF         | C355    | ECKC3D152J   | CERAMIC 2KV 1.5nF $\Delta$   |
| C013                            | ECEA1HU010   | ELECT 50V 1 $\mu$ F       | C357    | ECKC2H152J   | CERAMIC 500V 1.5nF $\Delta$  |
| C014                            | ECUV1H103ZFX | S.M. CAP 50V 10nF         | C358    | ECEA1HU220   | ELECT 50V 22 $\mu$ F         |
| C016                            | ECEA1CU100   | ELECT 16V 10 $\mu$ F      | C360    | ECEA1CU101   | ELECT 16V 100 $\mu$ F        |
| C017                            | ECUV1H103ZFX | S.M. CAP 50V 10nF         | C362    | ECUV1H102ZFX | S.M. CAP 50V 1nF             |
| C018                            | ECEA1CU100   | ELECT 16V 10 $\mu$ F      | C368    | ECEA2EU010   | ELECT 250V 1 $\mu$ F         |
| C019                            | ECUV1H103ZFX | S.M. CAP 50V 10nF         | C401    | ECQM1H104J   | FILM 50V 100nF               |
| C021                            | ECUV1H080DCX | S.M. CAP 50V 80pF         | C402    | ECUV1H471JCX | S.M. CAP 50V 470pF           |
| C022                            | ECEA1HGE330  | ELECT 50V 33 $\mu$ F      | C451    | ECUV1H153ZFX | S.M. CAP 50V 15nF            |
| C103                            | ERJ6GEY0R00  | WIRE LINK                 | C452    | ECKC2H471J   | CERAMIC 500V 470pF $\Delta$  |
| C104                            | ECUV1H103ZFX | S.M. CAP 50V 10nF         | C454    | ECKC2H471J   | CERAMIC 500V 470pF $\Delta$  |
| C107                            | ECUV1H104ZFW | S.M. CAP 50V 100nF        | C455    | ECEA1HU101   | ELECT 50V 100 $\mu$ F        |
| C108                            | ECEA1HU2R2   | ELECT 50V 2.2 $\mu$ F     | C457    | ECEA1EU222   | ELECT 25V 2200 $\mu$ F       |
| C109                            | ECUV1H104ZFX | S.M. CAP 50V 100nF        | C458    | ECQM1H104J   | FILM 50V 100nF               |
| C111                            | ECUV1H180JRX | S.M. CAP 50V 18pF         | C459    | ECEA1EU470   | ELECT 25V 47 $\mu$ F         |
| C112                            | ECUV1H223ZFX | S.M. CAP 50V 22nF         | C461    | ECEA1VGE102  | ELECT 35V 1000 $\mu$ F       |
| C116                            | ECUV1H101JCX | S.M. CAP 50V 100pF        | C501    | ECUV1H472KBX | S.M. CAP 50V 4.7nF           |
| C206                            | ECUV1H332KBW | S.M. CAP 50V 3.3nF        | C502    | ECEA1HU010   | ELECT 50V 1 $\mu$ F          |
| C208                            | ECEA1HU2R2   | ELECT 50V 2.2 $\mu$ F     | C503    | ECUV1H222KBX | S.M. CAP 50V 2.2nF           |
| C209                            | ECEA1CU100   | ELECT 16V 10 $\mu$ F      | C504    | ECUV1H821JCX | S.M. CAP 50V 820pF           |
| C211                            | ECUV1H102KBX | S.M. CAP 50V 1nF          | C505    | ECQM1273KZW  | FILM 100V 27nF               |
| C214                            | ECEA1HU2R2   | ELECT 50V 2.2 $\mu$ F     | C506    | ECEA1JU100   | ELECT 63V 10 $\mu$ F         |
| C215                            | ECUV1H223ZFX | S.M. CAP 50V 22nF         | C507    | ECEA1HFS2R2  | S.M. CAP 50V 2.2 $\mu$ F     |
| C216                            | ECEA1CU220   | ELECT 16V 22 $\mu$ F      | C508    | ECEA1CU100   | ELECT 16V 10 $\mu$ F         |
| C225                            | ECUV1H030CCX | S.M. CAP 50V 30pF         | C509    | ECEA1AGE471  | ELECT 10V 470 $\mu$ F        |
| C228                            | ECUV1H390JCX | S.M. CAP 50V 39pF         | C511    | ECEA1HGE100  | ELECT 50V 10 $\mu$ F         |
| C233                            | ECEA1CU220   | ELECT 16V 22 $\mu$ F      | C512    | ECKC2H222J   | CERAMIC 500V 2200pF $\Delta$ |
|                                 |              |                           | C553    | ECWH12H822J  | CERAMIC 500V 8.2nF $\Delta$  |
|                                 |              |                           | C556    | ECKC3D821JB  | CERAMIC 2KV 820pF $\Delta$   |
|                                 |              |                           | C558    | ECWF2H474J   | FILM 500V 470nF $\Delta$     |
|                                 |              |                           | C561    | ECKC2H471J   | CERAMIC 500V 470pF $\Delta$  |
|                                 |              |                           | C563    | ECKC2H471J   | CERAMIC 500V 470pF $\Delta$  |
|                                 |              |                           | C564    | ECEA1EU471   | ELECT 25V 470 $\mu$ F        |

| Ref No. | Part No.     | Description        |   |
|---------|--------------|--------------------|---|
| C565    | ECEA2CU4R7   | ELECT 160V 4.7μF   |   |
| C566    | ECKC2H471J   | CERAMIC 500V 470pF | Δ |
| C567    | ECKC2H561J   | CERAMIC 500V 560pF | Δ |
| C568    | ECEA1VU101   | ELECT 35V 100μF    |   |
| C569    | ECEA1VU471   | ELECT 35V 470μF    |   |
| C571    | ECUV1H122JX  | S.M. CAP 50V 1.2nF |   |
| C572    | ECKC2H152J   | CERAMIC 500V 1.5nF | Δ |
| C601    | ECUV1H222KBX | S.M. CAP 50V 2.2nF |   |
| C602    | ECUV1H150JRX | S.M. CAP 50V 15pF  |   |
| C604    | ECUV1H392KBX | S.M. CAP 50V 3.9nF |   |
| C605    | ECQB1H104J   | FILM 50V 100nF     |   |
| C606    | ECUV1H104ZFW | S.M. CAP 50V 100nF |   |
| C607    | ECUV1H104ZFW | S.M. CAP 50V 100nF |   |
| C608    | ECUV1H223ZFX | S.M. CAP 50V 22nF  |   |
| C609    | ECEA1AU470   | ELECT 10V 47μF     |   |
| C611    | ECUV1H102KBX | S.M. CAP 50V 1nF   |   |
| C612    | ECUV1H102KBX | S.M. CAP 50V 1nF   |   |
| C613    | ECUV1H223ZFX | S.M. CAP 50V 22nF  |   |
| C620    | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C622    | ECEA1AU102   | ELECT 10V 1000μF   |   |
| C626    | ECUV1H470JCX | S.M. CAP 50V 47pF  |   |
| C627    | ECUV1H470JCX | S.M. CAP 50V 47pF  |   |
| C802    | ECQU2A473MN  | FILM 200V 47nF     | Δ |
| C803    | ECKC2H472J   | CERAMIC 500V 4.7nF | Δ |
| C804    | ECKC2H472J   | CERAMIC 500V 4.7nF | Δ |
| C805    | ECKC2H472J   | CERAMIC 500V 4.7nF | Δ |
| C806    | ECKC2H472J   | CERAMIC 500V 4.7nF | Δ |
| C807    | ECES2GG101   | ELECT 400V 100μF   | Δ |
| C808    | ECKC2H471J   | CERAMIC 500V 470pF | Δ |
| C809    | ECEA1AU330   | ELECT 10V 33μF     |   |
| C812    | ECKC3D152J   | CERAMIC 2KV 1.5nF  | Δ |
| C813    | ECEA1AU221   | ELECT 10V 220μF    |   |
| C814    | ECA2CGE221   | ELECT 160V 220μF   |   |
| C817    | ECKCNS102J   | CERAMIC 1.2KV 1nF  | Δ |
| C818    | ECEA2EU2R2   | ELECT 250V 2.2μF   |   |
| C822    | ECQM1H104J   | FILM 50V 100nF     |   |
| C823    | ECKC2H103J   | CERAMIC 50V 10nF   | Δ |
| C824    | ECKC3D152J   | CERAMIC 2KV 1.5nF  | Δ |
| C851    | ECKC2H471J   | CERAMIC 500V 470pF | Δ |
| C852    | ECEA1EU102   | ELECT 25V 1000μF   |   |
| C853    | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C854    | ECEA0JU101   | ELECT 6.3V 100μF   |   |
| C855    | ECKC2H471J   | CERAMIC 500V 470pF | Δ |
| C856    | ECEA1HGE471  | ELECT 50V 470μF    |   |
| C857    | ECEA1AU471   | ELECT 10V 470μF    |   |
| C858    | ECEA1EGE100  | ELECT 25V 10μF     |   |
| C859    | ECEA1EGE100  | ELECT 25V 10μF     |   |
| C1204   | ECUV1H104ZFX | S.M. CAP 50V 100nF |   |
| C1205   | ECEA1EU101   | ELECT 25V 100μF    |   |
| C1206   | ECEA0JU471   | ELECT 6.3V 470μF   |   |
| C1207   | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C1208   | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C1214   | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C1216   | ECEA1CKA101  | ELECT 16V 100μF    |   |
| C1217   | ECUV1H104ZFW | S.M. CAP 50V 100nF |   |
| C1218   | ECUV1H331KBX | S.M. CAP 50V 330pF |   |
| C1221   | ECQM1H104J   | FILM 50V 100nF     |   |
| C1224   | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |
| C1226   | ECUV1H101JCX | S.M. CAP 50V 100pF |   |
| C1227   | ECUV1H471KBX | S.M. CAP 50V 470pF |   |
| C1228   | ECUV1H471JCX | S.M. CAP 50V 470pF |   |
| C1231   | ECUV1H101JCX | S.M. CAP 50V 100pF |   |
| C1232   | ECUV1H220JRX | S.M. CAP 50V 22pF  |   |
| C1234   | ECUV1H471KBX | S.M. CAP 50V 470pF |   |
| C1235   | ECUV1H471KBX | S.M. CAP 50V 470pF |   |
| C1236   | ECUV1H471KBX | S.M. CAP 50V 470pF |   |
| C1237   | ECUV1H471KBX | S.M. CAP 50V 470pF |   |
| C1238   | ECUV1H471JCX | S.M. CAP 50V 470pF |   |
| C1239   | ECUV1H471JCX | S.M. CAP 50V 470pF |   |
| C1240   | ECUV1H103ZFX | S.M. CAP 50V 10nF  |   |

| Ref No. | Part No.     | Description        |  |
|---------|--------------|--------------------|--|
| C1241   | ECEA1HU2R2   | ELECT 50V 2.2μF    |  |
| C1242   | ECEA1HU2R2   | ELECT 50V 2.2μF    |  |
| C1243   | ECEA1HU4R7   | ELECT 50V 4.7μF    |  |
| C1244   | ECEA1HU2R2   | ELECT 50V 2.2μF    |  |
| C1245   | ECEA1HU2R2   | ELECT 50V 2.2μF    |  |
| C1246   | ECUV1H472KBX | S.M. CAP 50V 4.7nF |  |
| C1247   | ECUV1H181JCX | S.M. CAP 50V 180pF |  |
| C1248   | ECUV1H472KBX | S.M. CAP 50V 4.7nF |  |
| C1249   | ECUV1H223KBX | S.M. CAP 50V 22nF  |  |
| C1251   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C1252   | ECEA1HU010   | ELECT 50V 1μF      |  |
| C1253   | ECEA1HU4R7   | ELECT 50V 4.7μF    |  |
| C1255   | ECUV1H560JCX | S.M. CAP 50V 56pF  |  |
| C1256   | ECEA1HU2R2   | ELECT 50V 2.2μF    |  |
| C1257   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C1258   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C1259   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C1261   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C1262   | ECUV1H471JCX | S.M. CAP 50V 470pF |  |
| C3101   | ECEA1AU471   | ELECT 10V 470μF    |  |
| C3104   | ECEA1CU100   | ELECT 16V 10μF     |  |
| C3115   | ECUV1H103KBX | S.M. CAP 50V 10nF  |  |
| C3117   | ECEA1AU101   | ELECT 10V 100μF    |  |
| C3301   | ECUV1H104ZFW | S.M. CAP 50V 100nF |  |
| C3302   | ECUV1H104ZFW | S.M. CAP 50V 100nF |  |
| C3303   | ECUV1H104ZFW | S.M. CAP 50V 100nF |  |

## DIODES

|      |              |            |
|------|--------------|------------|
| D201 | MA29TA5      | DIODE      |
| D251 | PMLL4148L    | DIODE      |
| D301 | MA4091       | DIODE      |
| D302 | MA4091       | DIODE      |
| D303 | MA4091       | DIODE      |
| D304 | MA4022       | DIODE      |
| D305 | MA165TA5     | DIODE      |
| D355 | PMLL4148L    | DIODE      |
| D356 | PMLL4148L    | DIODE      |
| D357 | PMLL4148L    | DIODE      |
| D358 | PMLL4148L    | DIODE      |
| D451 | ERA15-02V3   | DIODE      |
| D452 | MA4360       | DIODE      |
| D453 | MA165TA5     | DIODE      |
| D505 | MA4360       | DIODE      |
| D506 | MA4075       | DIODE      |
| D507 | MA165TA5     | DIODE      |
| D561 | ERA22-02V3   | DIODE      |
| D562 | ERA22-02V3   | DIODE      |
| D563 | MA167TA5     | DIODE      |
| D564 | ERD32-02L7   | DIODE      |
| D565 | EU02         | DIODE      |
| D602 | MA4051       | DIODE      |
| D604 | PMLL4148L    | DIODE      |
| D801 | EM02BM       | DIODE      |
| D802 | EM02BM       | DIODE      |
| D803 | EM02BM       | DIODE      |
| D804 | EM02BM       | DIODE      |
| D805 | 232266296319 | THERMISTOR |
| D806 | AU02AV0      | DIOSE      |
| D807 | K2NLF41      | DIODE      |
| D808 | ERA15-02V3   | DIODE      |
| D809 | BYD31D-26MM  | DIODE      |
| D810 | ERA15-02V3   | DIODE      |
| D811 | BYD31D-26MM  | DIODE      |
| D812 | MA4051       | DIODE      |
| D813 | PC120FY      | I.C.       |
| D816 | BYD31D-26MM  | DIODE      |
| D817 | MA1033MTA    | DIODE      |
| D818 | ERA15-02V3   | DIODE      |
| D820 | TF341M-A-RL  | THYRISTOR  |

| Ref No. | Part No.  | Description |
|---------|-----------|-------------|
| D821    | AU02V0    |             |
| D822    | PC120FY   | I.C.        |
| D851    | RU2AMLFA1 | DIODE       |
| D852    | AU02V0    |             |
| D854    | MA4082    | DIODE       |
| D855    | MA4051    | DIODE       |
| D856    | AU02V0    |             |
| D1202   | PMLL4148L | DIODE       |
| D1203   | LN81RPHL  | DIODE       |
| D1205   | PMLL4148L | DIODE       |
| D1207   | PMLL4148L | DIODE       |
| D1208   | PMLL4148L | DIODE       |
| D1209   | PMLL4148L | DIODE       |
| D1211   | MA4082    | DIODE       |
| D1212   | PMLL4148L | DIODE       |
| D1214   | PMLL4148L | DIODE       |
| D1215   | PMLL4148L | DIODE       |
| D1217   | PMLL4148L | DIODE       |
| D3101   | PMLL4148L | DIODE       |
| D3102   | MA4051    | DIODE       |

### INTEGRATED CIRCUITS

|        |              |                        |
|--------|--------------|------------------------|
| IC012  | UPC574J      | REGULATOR              |
| IC1202 | MN152811TBS  | MICRO PROCESSOR        |
| IC1203 | MN1280R      | RESET                  |
| IC1204 | RPM-637CBRS1 | LED RECEIVER           |
| IC1205 | ST24C02AB1   | EEPROM                 |
| IC251  | AN5265       | AUDIO OUTPUT I.C.      |
| IC451  | TDA3653C     | VERTICAL O/PUT I.C.    |
| IC601  | TDA8361      | VIDEO PROCESSOR I.C.   |
| IC602  | TDA4662      | DELAY LINE             |
| IC801  | STR51402-M   | POWER SUPPLY REGULATOR |
| IC851  | L78M05MRB    | 5V REGULATOR           |
| IC852  | L78M12MRB    | 12V REGULATOR          |

### COILS

|       |             |             |
|-------|-------------|-------------|
| L011  | EXCELSA35T  | COIL        |
| L012  | ELESN8K2A   | COIL        |
| L103  | TLI157X57   | COIL        |
| L104  | EIV7EN190B  | COIL        |
| L207  | ELEXT4R7KA  | COIL        |
| L301  | ELESN100KA  | COIL        |
| L307  | ELESN150KA  | COIL        |
| L351  | ELESN181KA  | COIL        |
| L352  | ELESN181KA  | COIL        |
| L353  | ELESN181KA  | COIL        |
| L354  | EXCELDLR35V | COIL        |
| L355  | EXCELDLR35V | COIL        |
| L356  | EXCELDLR35V | COIL        |
| L451  | ELESN8K2A   | COIL        |
| L801  | ELF18D450G  | LINE FILTER |
| L854  | EXCELSA35T  | COIL        |
| L1201 | ELESN1R0KA  | COIL        |
| L1218 | ELESN331KA  | COIL        |
| L1221 | EXCELSA35T  | COIL        |
| L3106 | ELC08D055   | COIL        |

### TRANSISTORS

|      |            |            |
|------|------------|------------|
| Q102 | BC847B     | TRANSISTOR |
| Q202 | BC847B     | TRANSISTOR |
| Q251 | BC847B     | TRANSISTOR |
| Q301 | BC847B     | TRANSISTOR |
| Q351 | 2SC1473-RN | TRANSISTOR |
| Q352 | 2SC1473-RN | TRANSISTOR |

| Ref No. | Part No.   | Description |
|---------|------------|-------------|
| Q353    | 2SC1473-RN | TRANSISTOR  |
| Q356    | BC857B     | TRANSISTOR  |
| Q501    | 2SD836-AL  | TRANSISTOR  |
| Q502    | BC857B     | TRANSISTOR  |
| Q503    | BC847B     | TRANSISTOR  |
| Q504    | BC847B     | TRANSISTOR  |
| Q551    | BU2506DFLB | TRANSISTOR  |
| Q803    | 2SD1272QLB | TRANSISTOR  |
| Q804    | BC847B     | TRANSISTOR  |
| Q805    | BC847B     | TRANSISTOR  |
| Q851    | 2SD1273PLB | TRANSISTOR  |
| Q853    | BC857B     | TRANSISTOR  |
| Q1201   | BC857B     | TRANSISTOR  |
| Q1202   | BC847B     | TRANSISTOR  |
| Q1203   | BC847B     | TRANSISTOR  |
| Q1205   | BC847B     | TRANSISTOR  |
| Q1206   | BC847B     | TRANSISTOR  |
| Q1207   | BC847B     | TRANSISTOR  |
| Q1208   | UN2213TX   | TRANSISTOR  |
| Q1209   | BC847B     | TRANSISTOR  |
| Q1211   | BC847B     | TRANSISTOR  |
| Q1212   | 2SC3311ATA | TRANSISTOR  |
| Q1213   | BC847B     | TRANSISTOR  |
| Q1214   | 2SC3311ATA | TRANSISTOR  |
| Q1240   | BC847B     | TRANSISTOR  |
| Q3101   | 2SC1318-S  | TRANSISTOR  |
| Q3102   | BC857B     | TRANSISTOR  |
| Q3103   | BC847B     | TRANSISTOR  |
| Q3104   | BC857B     | TRANSISTOR  |
| Q3105   | BC847B     | TRANSISTOR  |
| Q3301   | BC847B     | TRANSISTOR  |

### RESISTORS

|      |              |           |       |          |
|------|--------------|-----------|-------|----------|
| R011 | ERJ6GEY0R00  | WIRE LINK |       |          |
| R012 | ERJ6GEY0R00  | WIRE LINK |       |          |
| R015 | ERJ6GEYJ153  | S.M.CARB  | 0.1W  | 5% 15KΩ  |
| R016 | ERG2SJS273   | METAL     | 2W    | 5% 27KΩ  |
| R101 | ERJ6GEY0R00  | WIRE LINK |       |          |
| R103 | ERJ6GEY0R00  | WIRE LINK |       |          |
| R107 | ERJ6GEYJ681  | S.M.CARB  | 0.1W  | 5% 680Ω  |
| R108 | ERJ6GEYJ562  | S.M.CARB  | 0.1W  | 5% 5.6KΩ |
| R109 | EVND4AA00B14 | CONTROL   |       | 10KΩ     |
| R111 | ERJ6GEYJ122  | S.M.CARB  | 0.1W  | 5% 1K2Ω  |
| R112 | ERJ6GEYJ334  | S.M.CARB  | 0.1W  | 5% 330KΩ |
| R113 | ERJ6GEYJ334  | S.M.CARB  | 0.1W  | 5% 330KΩ |
| R114 | ERJ6GEYJ472  | S.M.CARB  | 0.1W  | 5% 4.7KΩ |
| R115 | ERJ6GEYJ103  | S.M.CARB  | 0.1W  | 5% 10KΩ  |
| R116 | ERJ6GEYJ183  | S.M.CARB  | 0.1W  | 5% 18KΩ  |
| R117 | ERJ6GMYJ271  | S.M.CARB  | 0.1W  | 5% 270Ω  |
| R118 | ERJ6GEYJ221  | S.M.CARB  | 0.1W  | 5% 220Ω  |
| R119 | ERJ6GEYJ682  | S.M.CARB  | 0.1W  | 5% 6K8Ω  |
| R123 | ERJ6GEYJ152  | S.M.CARB  | 0.1W  | 5% 1K5Ω  |
| R124 | ERJ6GEYJ114  | S.M.CARB  | 0.1W  | 5% 110KΩ |
| R204 | ERJ6GEYJ182  | S.M.CARB  | 0.1W  | 5% 1K8Ω  |
| R205 | ERJ6GEYJ152  | S.M.CARB  | 0.1W  | 5% 1K5Ω  |
| R207 | ERJ6GEYJ153  | S.M.CARB  | 0.1W  | 5% 15KΩ  |
| R208 | ERJ6GEYJ103  | S.M.CARB  | 0.1W  | 5% 10KΩ  |
| R209 | ERJ6GEYJ102  | S.M.CARB  | 0.1W  | 5% 1KΩ   |
| R216 | ERJ6GEYJ103  | S.M.CARB  | 0.1W  | 5% 10KΩ  |
| R232 | ERJ6GEYJ681  | S.M.CARB  | 0.1W  | 5% 680Ω  |
| R251 | ERJ6GEYJ102  | S.M.CARB  | 0.1W  | 5% 1KΩ   |
| R253 | ERJ6GEYJ221  | S.M.CARB  | 0.1W  | 5% 220Ω  |
| R254 | ERQ14AJ100   | METAL     | 0.25W | 5% 10Ω ▲ |
| R255 | ERJ6GEYJ332  | S.M.CARB  | 0.1W  | 5% 3K3Ω  |
| R256 | ERJ6GEYJ471  | S.M.CARB  | 0.1W  | 5% 470Ω  |
| R258 | ERD25TJ102   | CARBON    | 0.25W | 5% 1KΩ   |
| R259 | ERQ1CJP120   | METAL     | 1W    | 5% 12Ω ▲ |
| R261 | ERJ6GEYJ3R3  | S.M.CARB  | 0.1W  | 5% 3.3Ω  |
| R262 | ERJ6GEYJ182  | S.M.CARB  | 0.1W  | 5% 1K8Ω  |

| Ref No. | Part No.     | Description            |
|---------|--------------|------------------------|
| R263    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R301    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R302    | ERQ14AJ470   | METAL 0.25W 5% 47Ω ▲   |
| R303    | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R304    | ERJ6GEYJ181  | S.M.CARB 0.1W 5% 180Ω  |
| R305    | ERDS1TJ391   | CARBON 0.5W 5% 390Ω    |
| R306    | EVNDCAA03B14 | CONTROL 10KΩ           |
| R307    | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R308    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R309    | ERJ6GEYJ821  | S.M.CARB 0.1W 5% 820Ω  |
| R310    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R311    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R312    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R313    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R314    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R315    | ERJ6GEYJ104  | S.M.CARB 0.1W 5% 100KΩ |
| R316    | EVND4AA00B53 | CONTROL 5KΩ            |
| R317    | ERJ6GEYJ393  | S.M.CARB 0.1W 5% 39KΩ  |
| R318    | ERJ6GEYJ913  | S.M.CARB 0.1W 5% 91KΩ  |
| R319    | ERJ6GEYOR00  | WIRE LINK              |
| R320    | ERD25TJ102   | CARBON 0.25W 5% 1KΩ    |
| R351    | ERG1SJ123    | METAL 1W 5% 12KΩ       |
| R352    | ERG1SJ123    | METAL 1W 5% 12KΩ       |
| R353    | ERG1SJ123    | METAL 1W 5% 12KΩ       |
| R354    | ERJ6GEYJ151  | S.M.CARB 0.1W 5% 150Ω  |
| R355    | ERJ6GEYJ391  | S.M.CARB 0.1W 5% 390Ω  |
| R356    | ERJ6GEYJ151  | S.M.CARB 0.1W 5% 150Ω  |
| R357    | EVN65UA00B52 | CONTROL 500Ω           |
| R358    | EVN65UA00B52 | CONTROL 500Ω           |
| R359    | ERJ6GEYJ821  | S.M.CARB 0.1W 5% 820Ω  |
| R360    | ERJ6GEYJ821  | S.M.CARB 0.1W 5% 820Ω  |
| R361    | ERJ6GEYJ821  | S.M.CARB 0.1W 5% 820Ω  |
| R362    | EVN65UA00B53 | CONTROL 5KΩ            |
| R363    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R364    | EVN65UA00B53 | CONTROL 5KΩ            |
| R366    | ERDS1TJ152   | CARBON 0.5W 5% 1K5Ω    |
| R367    | ERDS1TJ152   | CARBON 0.5W 5% 1K5Ω    |
| R368    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R369    | EVN65UA00B53 | CONTROL 5KΩ            |
| R370    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R374    | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R375    | ERDS1FJ152   | CARBON 0.5W 5% 1K5Ω ▲  |
| R376    | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R377    | ERJ6GEYJ391  | S.M.CARB 0.1W 5% 390Ω  |
| R401    | ERJ6GEYJ334  | S.M.CARB 0.1W 5% 330KΩ |
| R403    | ERJ6GEYJ335  | S.M.CARB 0.1W 5% 3M3Ω  |
| R451    | ERJ6GEYJ432  | S.M.CARB 0.1W 5% 4.3KΩ |
| R452    | ERJ6GEYJ432  | S.M.CARB 0.1W 5% 4.3KΩ |
| R455    | ERG1SJ561    | METAL 1W 5% 560Ω       |
| R456    | ERDS1TJ471   | CARBON 0.5W 5% 470Ω    |
| R457    | ERDS1TJ331   | CARBON 0.5W 5% 330Ω    |
| R458    | ERG2SJ122    | METAL 2W 5% 1K2Ω       |
| R459    | ERDS1TJ222   | CARBON 0.5W 5% 2K2Ω    |
| R461    | ERDS1TJ432   | CARBON 0.5W 5% 4K3Ω    |
| R462    | ERJ6GEYJ122  | S.M.CARB 0.1W 5% 1K2Ω  |
| R463    | ERJ6GEYJ432  | S.M.CARB 0.1W 5% 4.3KΩ |
| R464    | ERDS1TJ2R2   | CARBON 0.5W 5% 2.2Ω    |
| R465    | EVNDCAA03B22 | CONTROL 200Ω           |
| R466    | ERJ6GEYJ470  | S.M.CARB 0.1W 5% 47Ω   |
| R467    | ERJ6GEYJ122  | S.M.CARB 0.1W 5% 1K2Ω  |
| R468    | ERJ6GEYJ331  | S.M.CARB 0.1W 5% 330Ω  |
| R469    | ERJ6GEYOR00  | WIRE LINK              |
| R501    | ERJ6GEYJ123  | S.M.CARB 0.1W 5% 12KΩ  |
| R502    | EVND4AA00B14 | CONTROL 10KΩ           |
| R503    | ERJ6GEYJ824  | S.M.CARB 0.1W 5% 820KΩ |
| R504    | ERJ6GEYJ273  | S.M.CARB 0.1W 5% 27KΩ  |
| R505    | ERJ6GEYJ471  | S.M.CARB 0.1W 5% 470Ω  |
| R506    | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R507    | ERG2ANJ471   | METAL 2W 5% 470Ω       |
| R508    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R509    | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |

| Ref No. | Part No.     | Description            |
|---------|--------------|------------------------|
| R512    | ERJ6GEYJ474  | S.M.CARB 0.1W 5% 470KΩ |
| R513    | ERJ6GEYJ333  | S.M.CARB 0.1W 5% 33KΩ  |
| R514    | ERJ6GEYJ472  | S.M.CARB 0.1W 5% 4.7KΩ |
| R516    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R518    | ERD25TJ103   | CARBON 0.25W 5% 10KΩ   |
| R519    | ERJ6GEYJ272  | S.M.CARB 0.1W 5% 2K7Ω  |
| R520    | ERQ12HJ1R0   | METAL 0.5W 5% 1R0Ω ▲   |
| R521    | ERQ2CJP8R2   | METAL 2W 5% 8R2Ω ▲     |
| R522    | ERQ12HJ1R2   | METAL 0.5W 5% 1R2Ω ▲   |
| R551    | ERDS1TJ1R8   | CARBON 0.5W 5% 1R8Ω    |
| R552    | ERDS1TJ1R5   | CARBON 0.5W 5% 1R5Ω    |
| R564    | ERQ12HJU1R5  | METAL 0.5W 5% 1R5Ω ▲   |
| R566    | ERD25TJ304   | CARBON 0.25W 5% 300KΩ  |
| R567    | ERJ6GEYJ822  | S.M.CARB 0.1W 5% 8.2KΩ |
| R568    | ERQ12HJ8R2   | METAL 0.5W 5% 8R2Ω ▲   |
| R571    | ERJ6GEYJ122  | S.M.CARB 0.1W 5% 1K2Ω  |
| R572    | ERD25TJ272   | CARBON 0.25W 5% 2K7Ω   |
| R601    | ERJ6GEYJ104  | S.M.CARB 0.1W 5% 100KΩ |
| R607    | EVND4AA00B14 | CONTROL 10KΩ           |
| R608    | ERJ6GEYJ332  | S.M.CARB 0.1W 5% 3K3Ω  |
| R616    | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R622    | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R623    | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R624    | ERJ6GEYJ332  | S.M.CARB 0.1W 5% 3K3Ω  |
| R625    | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R801    | ERF5ZK2R7    | WOUND 5W 20% 2.7Ω ▲    |
| R802    | ERDS1TJ184   | CARBON 0.5W 5% 180KΩ   |
| R803    | ERDS1TJ561   | CARBON 0.5W 5% 560Ω    |
| R804    | ERD25TJ561   | CARBON 0.25W 5% 560Ω   |
| R805    | ERJ6GEYJ561  | S.M.CARB 0.1W 5% 560Ω  |
| R806    | ERX1SJ8R2    | METAL 0.5W 5% 8R2Ω     |
| R807    | ERC12ZGK335D | SOLID 0.5W 10% 3M3Ω    |
| R809    | TSF19401     | FS LINK ▲              |
| R810    | ERDS1TJ104   | CARBON 0.5W 5% 100KΩ   |
| R811    | ERJ6GEYJ332  | S.M.CARB 0.1W 5% 3K3Ω  |
| R812    | ERQ12HJ330   | METAL 0.5W 5% 33Ω ▲    |
| R813    | ERDS1TJ334   | CARBON 0.5W 5% 330KΩ   |
| R814    | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R815    | ERD75TAJ825  | CARBON 0.75W 5% 8M2Ω ▲ |
| R816    | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R817    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R818    | ERDS1TJ154   | CARBON 0.5W 5% 150KΩ   |
| R819    | ERDS1TJ124   | CARBON 0.5W 5% 120KΩ   |
| R821    | ERDS1TJ334   | CARBON 0.5W 5% 330KΩ   |
| R822    | ERG2ANJ683   | METAL 2W 5% 68KΩ       |
| R823    | ERJ6GEYJ472  | S.M.CARB 0.1W 5% 4.7KΩ |
| R824    | ERDS1TJ683   | CARBON 0.5W 5% 68KΩ    |
| R825    | ERDS1TJ683   | CARBON 0.5W 5% 68KΩ    |
| R826    | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R827    | ERJ6GEYJ471  | S.M.CARB 0.1W 5% 470Ω  |
| R828    | ERW12PKR33   | WOUND 0.5W 10% 0R33Ω ▲ |
| R854    | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R855    | ERJ6GEYJ471  | S.M.CARB 0.1W 5% 470Ω  |
| R856    | ERJ6GEYJ681  | S.M.CARB 0.1W 5% 680Ω  |
| R858    | ERJ6GEYJ182  | S.M.CARB 0.1W 5% 1K8Ω  |
| R1151   | ERJ6GEYOR00  | WIRE LINK              |
| R1152   | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R1201   | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R1202   | ERJ6GEYJ563  | S.M.CARB 0.1W 5% 56KΩ  |
| R1203   | ERJ6GEYJ100  | S.M.CARB 0.1W 5% 10Ω   |
| R1204   | ERJ6GEYJ104  | S.M.CARB 0.1W 5% 100KΩ |
| R1205   | ERJ6GEYJ333  | S.M.CARB 0.1W 5% 33KΩ  |
| R1206   | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R1207   | ERJ6GEYJ152  | S.M.CARB 0.1W 5% 1K5Ω  |
| R1208   | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R1209   | ERJ6GMYJ271  | S.M.CARB 0.1W 5% 270Ω  |
| R1210   | ERJ6GEYJ152  | S.M.CARB 0.1W 5% 1K5Ω  |
| R1211   | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R1213   | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R1214   | ERJ6GEYJ153  | S.M.CARB 0.1W 5% 15KΩ  |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R1216   | ERJ6ENF4871 | S.M.CARB 0.1W 1% 4K87Ω |
| R1217   | ERJ6ENF3161 | S.M.CARB 0.1W 1% 3K16Ω |
| R1218   | ERJ6ENF2371 | S.M.CARB 0.1W 1% 2K37Ω |
| R1219   | ERJ6ENF2371 | S.M.CARB 0.1W 1% 2K37Ω |
| R1220   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1221   | ERJ6ENF1002 | S.M.CARB 0.1W 1% 10KΩ  |
| R1222   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1223   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1224   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1225   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1226   | ERJ6GEYJ123 | S.M.CARB 0.1W 5% 12KΩ  |
| R1227   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1228   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1229   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1230   | ERJ6GEY0R00 | WIRE LINK              |
| R1231   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1232   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |
| R1233   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R1234   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1235   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1236   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1237   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1238   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R1239   | ERJ6GEYJ564 | S.M.CARB 0.1W 5% 560KΩ |
| R1240   | ERJ6GEY0R00 | WIRE LINK              |
| R1241   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1242   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1243   | ERJ6GEYJ752 | S.M.CARB 0.1W 5% 7.5KΩ |
| R1244   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1245   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1246   | ERJ6GEYJ122 | S.M.CARB 0.1W 5% 1K2Ω  |
| R1247   | ERJ6GEY0R00 | WIRE LINK              |
| R1248   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1249   | ERJ6GEY0R00 | WIRE LINK              |
| R1250   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1251   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1252   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |
| R1253   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R1254   | ERJ6GEY0R00 | WIRE LINK              |
| R1255   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1256   | ERJ6GEYJ183 | S.M.CARB 0.1W 5% 18KΩ  |
| R1257   | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |
| R1258   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |
| R1259   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R1260   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1261   | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |
| R1262   | ERJ6GEYJ123 | S.M.CARB 0.1W 5% 12KΩ  |
| R1263   | ERJ6GEYJ563 | S.M.CARB 0.1W 5% 56KΩ  |
| R1264   | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680Ω  |
| R1266   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R1267   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R1268   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |
| R1269   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |
| R1270   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1271   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |
| R1272   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R1273   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R1275   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R1276   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1277   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1282   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1287   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R1288   | ERJ6GEYJ563 | S.M.CARB 0.1W 5% 56KΩ  |
| R1289   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R1291   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1292   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1293   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R1294   | ERJ6GEY0R00 | WIRE LINK              |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R1296   | ERJ6GEY0R00 | WIRE LINK              |
| R1299   | ERJ6GEY0R00 | WIRE LINK              |
| R3101   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3102   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3103   | ERJ6GEYJ272 | S.M.CARB 0.1W 5% 2K7Ω  |
| R3105   | ERDS1TJ101  | CARBON 0.5W 5% 500Ω    |
| R3106   | ERDS1TJ750  | CARBON 0.5W 5% 75Ω     |
| R3108   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3109   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3112   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3115   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3116   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3117   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3118   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R3119   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |
| R3120   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R3121   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3122   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R3123   | ERJ6GEYJ393 | S.M.CARB 0.1W 5% 39KΩ  |
| R3124   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R3125   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R3126   | ERJ6GEYJ273 | S.M.CARB 0.1W 5% 27KΩ  |
| R3127   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3128   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3131   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R3132   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R3134   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R3137   | ERJ6GEY0R00 | WIRE LINK              |
| R3301   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3302   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3303   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3304   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3305   | ERJ6GEY0R00 | WIRE LINK              |
| R3306   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R3308   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3309   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |
| R3310   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |

## SWITCHES

|       |           |        |
|-------|-----------|--------|
| S301  | EVQRBAL10 | SWITCH |
| S451  | EVQRDSL12 | SWITCH |
| S801  | ESB91232A | SWITCH |
| S1202 | EVQPB105K | SWITCH |
| S1203 | EVQPB105K | SWITCH |
| S1204 | EVQPB105K | SWITCH |
| S1205 | EVQPB105K | SWITCH |
| S1206 | EVQPB105K | SWITCH |

## TRANSFORMERS

|      |              |                     |
|------|--------------|---------------------|
| T201 | EIS7ES710B   | TRANSFORMER         |
| T551 | TLH15460M    | COIL                |
| T552 | TLF15638F    | FLYBACK TRANSFORMER |
| T801 | ETS35AA1S7AC | TRANSFORMER         |

## FILTERS

|       |             |         |
|-------|-------------|---------|
| X101  | F1045A      | FILTER  |
| X203  | EFCS6R0MS5  | FILTER  |
| X301  | EFCS6R0MW3  | FILTER  |
| X601  | TSS116M1    | CRYSTAL |
| X1201 | EFOGC6004A4 | FILTER  |

## PARTS LIST DIFFERENCES FOR TX-14S1T

| Ref No.                         | Part No.     | Description      |            |
|---------------------------------|--------------|------------------|------------|
| <b>MISCELLANEOUS COMPONENTS</b> |              |                  |            |
| 12)                             | TBM8E1344    | REAR COVER LABEL |            |
| 13)                             | TNP8EE004AD  | E P.C.B.         | ▲          |
| 14)                             | TNP8ET001AA  | T P.C.B.         | ▲          |
| 15)                             | TNQ8E0461    | REMOTE CONTROL   |            |
| <b>CAPACITORS</b>               |              |                  |            |
| C562                            | ECEA2EGE100  | ELECT            | 250V 10μF  |
| C3501                           | ECEA1CU470   | ELECT            | 16V 47μF   |
| C3502                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3503                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3504                           | ECUV1H221JX  | S.M. CAP         | 50V 220pF  |
| C3505                           | ECUV1H150JCX | S.M. CAP         | 50V 15pF   |
| C3506                           | ECUV1H221JX  | S.M. CAP         | 50V 220pF  |
| C3507                           | ECUV1H150JCX | S.M. CAP         | 50V 15pF   |
| C3508                           | ECEA1CN100   | ELECT            | 16V 10μF   |
| C3509                           | ECEA1CU471   | ELECT            | 16V 470μF  |
| C3510                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3511                           | ECEA1CN100   | ELECT            | 16V 10μF   |
| C3512                           | ECEA1CN100   | ELECT            | 16V 10μF   |
| C3513                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3514                           | ECEA1CU470   | ELECT            | 16V 47μF   |
| C3515                           | ECEA1CN100   | ELECT            | 16V 10μF   |
| C3516                           | ECEA1HU2R2   | ELECT            | 50V 2.2μF  |
| C3517                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3519                           | ECEA1CN220   | ELECT            | 16V 22μF   |
| C3520                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3521                           | ECEA0JU101   | ELECT            | 6.3V 100μF |
| C3523                           | ECUV1H104ZFX | S.M. CAP         | 50V 100nF  |
| C3524                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3526                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3527                           | ECEA1AU221   | ELECT            | 10V 220μF  |
| C3531                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3532                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3533                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3534                           | ECEA1CU101   | ELECT            | 16V 100μF  |
| C3535                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3536                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3537                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3538                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3539                           | ECEA1CU100   | ELECT            | 16V 10μF   |
| C3540                           | ECEA1CN470   | ELECT            | 16V 47μF   |
| C3541                           | ECEA1CU471   | ELECT            | 16V 470μF  |
| C3542                           | ECEA1CU221   | ELECT            | 16V 220μF  |
| C3543                           | ECUV1H104ZFW | S.M. CAP         | 50V 100nF  |
| C3544                           | ECUV1H103ZFX | S.M. CAP         | 50V 10nF   |
| C3545                           | ECUV1H470JCX | S.M. CAP         | 50V 47pF   |
| C3577                           | ECUV1H223KBX | S.M. CAP         | 50V 22nF   |
| <b>DIODES</b>                   |              |                  |            |
| D857                            | MA4200       | DIODE            |            |
| D3503                           | MA165TA5     | DIODE            |            |
| D3505                           | MA165TA5     | DIODE            |            |
| D3506                           | MA165TA5     | DIODE            |            |
| D3507                           | MA165TA5     | DIODE            |            |
| D3508                           | MA165TA5     | DIODE            |            |
| D3509                           | MA165TA5     | DIODE            |            |
| D3510                           | MA165TA5     | DIODE            |            |
| D3515                           | MA165TA5     | DIODE            |            |
| D3517                           | PMLL4148L    | DIODE            |            |
| D3518                           | PMLL4148L    | DIODE            |            |

| Ref No.                    | Part No.     | Description        |               |
|----------------------------|--------------|--------------------|---------------|
| <b>INTEGRATED CIRCUITS</b> |              |                    |               |
| IC3501                     | CF72306      | TELETEXT PROCESSOR |               |
| IC3502                     | CF70205ANW   | TELETEXT CONTROL   |               |
| IC3503                     | L78M05MRB    | 5V REGULATOR       |               |
| IC3504                     | LA7222-TV    | SWITCHING          |               |
| IC3505                     | AN5862K      | SWITCHING          |               |
| IC3506                     | MN1280R      | RESET              |               |
| <b>COILS</b>               |              |                    |               |
| L3501                      | ELESN100KA   | COIL               |               |
| L3503                      | ELESN100KA   | COIL               |               |
| L3504                      | ELESN100KA   | COIL               |               |
| L3505                      | ELESN100KA   | COIL               |               |
| <b>TRANSISTORS</b>         |              |                    |               |
| Q3503                      | BC847B       | TRANSISTOR         |               |
| Q3504                      | BC847B       | TRANSISTOR         |               |
| Q3505                      | BC847B       | TRANSISTOR         |               |
| Q3506                      | BC847B       | TRANSISTOR         |               |
| Q3508                      | BC857B       | TRANSISTOR         |               |
| Q3509                      | BC847B       | TRANSISTOR         |               |
| Q3510                      | BC847B       | TRANSISTOR         |               |
| Q3511                      | UN2213TX     | TRANSISTOR         |               |
| Q3512                      | 2SD601ATX    | TRANSISTOR         |               |
| Q3513                      | BC847B       | TRANSISTOR         |               |
| Q3514                      | BC847B       | TRANSISTOR         |               |
| <b>RESISTORS</b>           |              |                    |               |
| R517                       | ERG3SJS101   | METAL              | 3W 5% 10Ω     |
| R602                       | ERG2SJS470   | METAL              | 2W 5% 47Ω     |
| R1298                      | ERJ6GEYJ152  | S.M.CARB           | 0.1W 5% 1K5Ω  |
| R3501                      | ERJ6GEYJ102  | S.M.CARB           | 0.1W 5% 1KΩ   |
| R3502                      | ERJ6GEYJ102  | S.M.CARB           | 0.1W 5% 1KΩ   |
| R3503                      | ERJ6GEYJ102  | S.M.CARB           | 0.1W 5% 1KΩ   |
| R3504                      | ERJ6GEYJ103  | S.M.CARB           | 0.1W 5% 10KΩ  |
| R3505                      | ERJ6GEYJ562  | S.M.CARB           | 0.1W 5% 5.6KΩ |
| R3506                      | ERJ6GEYJ221  | S.M.CARB           | 0.1W 5% 220Ω  |
| R3507                      | ERJ6GEYJ221  | S.M.CARB           | 0.1W 5% 220Ω  |
| R3508                      | ERQ14AJ100   | METAL              | 0.25W 5% 10Ω  |
| R3509                      | ERJ6GEYJ221  | S.M.CARB           | 0.1W 5% 220Ω  |
| R3510                      | ERJ6GEY0R00  | WIRE LINK          |               |
| R3513                      | ERJ6GEYJ473  | S.M.CARB           | 0.1W 5% 47KΩ  |
| R3514                      | ERJ6GEYJ102  | S.M.CARB           | 0.1W 5% 1KΩ   |
| R3515                      | EVND4AA00B24 | CONTROL            | 20KΩ          |
| R3516                      | ERJ6GEYJ123  | S.M.CARB           | 0.1W 5% 12KΩ  |
| R3517                      | ERJ6GEYJ104  | S.M.CARB           | 0.1W 5% 100KΩ |
| R3521                      | ERJ6GEYJ153  | S.M.CARB           | 0.1W 5% 15KΩ  |
| R3522                      | ERJ6GEYJ101  | S.M.CARB           | 0.1W 5% 100Ω  |
| R3523                      | ERJ6GEYJ101  | S.M.CARB           | 0.1W 5% 100Ω  |
| R3524                      | ERJ6GEYJ332  | S.M.CARB           | 0.1W 5% 3K3Ω  |
| R3525                      | ERJ6GEYJ470  | S.M.CARB           | 0.1W 5% 47Ω   |
| R3526                      | ERJ6GEYJ470  | S.M.CARB           | 0.1W 5% 47Ω   |
| R3527                      | ERJ6GEYJ470  | S.M.CARB           | 0.1W 5% 47Ω   |
| R3529                      | ERJ6GEYJ222  | S.M.CARB           | 0.1W 5% 2K2Ω  |
| R3530                      | ERJ6GEYJ152  | S.M.CARB           | 0.1W 5% 1K5Ω  |
| R3531                      | ERJ6GEYJ152  | S.M.CARB           | 0.1W 5% 1K5Ω  |
| R3532                      | ERJ6GEYJ152  | S.M.CARB           | 0.1W 5% 1K5Ω  |
| R3534                      | ERJ6GEYJ181  | S.M.CARB           | 0.1W 5% 180Ω  |
| R3535                      | ERJ6GEYJ181  | S.M.CARB           | 0.1W 5% 180Ω  |
| R3536                      | ERJ6GEYJ181  | S.M.CARB           | 0.1W 5% 180Ω  |
| R3537                      | ERD25TJ102   | CARBON             | 0.25W 5% 1KΩ  |

| Ref No. | Part No.    | Description           |
|---------|-------------|-----------------------|
| R3538   | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680Ω |
| R3539   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ  |
| R3540   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ |
| R3541   | ERD25TJ682  | CARBON 0.25W 5% 6K8Ω  |
| R3543   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω |
| R3544   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ  |
| R3545   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω |
| R3546   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3547   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3548   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3549   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3550   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3551   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3552   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω |
| R3553   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω |
| R3554   | ERJ6GEYJ121 | S.M.CARB 0.1W 5% 120Ω |
| R3555   | ERJ6GEYJ181 | S.M.CARB 0.1W 5% 180Ω |
| R3556   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ |
| R3557   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω |
| R3558   | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R3559   | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω  |
| R3560   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3561   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3562   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |
| R3563   | ERJ6GEYJ183 | S.M.CARB 0.1W 5% 18KΩ  |
| R3564   | ERJ6GEYJ242 | S.M.CARB 0.1W 5% 2K4Ω  |
| R3565   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3566   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3569   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3571   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R3572   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R3575   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R3576   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R3577   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |

**FILTERS**

|       |           |         |
|-------|-----------|---------|
| X3501 | TSS2004-M | CRYSTAL |
|-------|-----------|---------|

## PARTS LIST DIFFERENCES FOR TC-14S1R

| Ref No.                         | Part No.    | Description      |
|---------------------------------|-------------|------------------|
| <b>MISCELLANEOUS COMPONENTS</b> |             |                  |
| 12)                             | TBM8E1347   | REAR COVER LABEL |
| 13)                             | TNP8EE004AF | E P.C.B. ▲       |
| 16)                             | TNQ8E0460   | REMOTE CONTROL   |

| Ref No.          | Part No.     | Description           |
|------------------|--------------|-----------------------|
| <b>RESISTORS</b> |              |                       |
| R1215            | ERO25CKF9531 | METAL 0.25W 1%9K53Ω ▲ |

**PARTS COMMON TO TX-21S1T AND TC-21S1R**

| Ref No.                         | Part No.     | Description           |
|---------------------------------|--------------|-----------------------|
| <b>MISCELLANEOUS COMPONENTS</b> |              |                       |
|                                 | TPC8E4415    | OUTER CARTON          |
|                                 | TPD8E576     | TOP CUSIO N           |
|                                 | TPD8E577     | BOTTOM CUSHION        |
|                                 | UM-3DEP-2P   | BATTERY               |
| 01)                             | A51KSV43X13  | C.R.T. ▲              |
| 02)                             | EASG12D531A2 | SPEAKER               |
| 03)                             | TBX8E019     | KEY BUTTON            |
| 04)                             | TBX8E018     | POWER BUTTON          |
| 05)                             | THT1009R     | CRT FIXING            |
| 06)                             | TKP8E1104    | SMOKED PANEL          |
| 07)                             | TKU8E00145   | REAR COVER ▲          |
| 08)                             | TKY8E029     | CABINET ▲             |
| 09)                             | TLK8E05106   | COIL                  |
| 10)                             | TNP8EY008AA  | Y P.C.B. ▲            |
| 11)                             | TSX8E0012    | MAINS LEAD ▲          |
| 15)                             | TNQ8E0461    | REMOTE CONTROL        |
| 17)                             | TMZ8E001     | CHASSIS RAIL ( RIGHT) |
| 18)                             | TMZ8E002     | CHASSIS RAIL (LEFT)   |
|                                 | TS-2100      | T.V. STAND            |
| F801                            | 2153.15H     | FUSE. ▲               |
| JK3101                          | TJS8E003     | SCART SOCKET          |
| JK3102                          | TJB16663     | A.V. TERMINAL         |
| TNR1                            | ENV87877G3   | TUNER ▲               |
|                                 | TBM153022    | PANASONIC BADGE       |
|                                 | TKK8E020     | A.V. TERMINAL COVER   |

**CAPACITORS**

|      |              |          |      |       |
|------|--------------|----------|------|-------|
| C011 | ECQM1H104J   | FILM     | 50V  | 100nF |
| C012 | ECUV1H103ZFX | S.M. CAP | 50V  | 10nF  |
| C013 | ECEA1HU010   | ELECT    | 50V  | 1μF   |
| C014 | ECUV1H103ZFX | S.M. CAP | 50V  | 10nF  |
| C017 | ECUV1H103ZFX | S.M. CAP | 50V  | 10nF  |
| C018 | ECEA1CU100   | ELECT    | 16V  | 10μF  |
| C019 | ECUV1H103ZFX | S.M. CAP | 50V  | 10nF  |
| C021 | ECUV1H080DCX | S.M. CAP | 50V  | 80pF  |
| C104 | ECUV1H103ZFX | S.M. CAP | 50V  | 10nF  |
| C107 | ECUV1H104ZFW | S.M. CAP | 50V  | 100nF |
| C108 | ECEA1HU2R2   | ELECT    | 50V  | 2.2μF |
| C109 | ECUV1H104ZFX | S.M. CAP | 50V  | 100nF |
| C111 | ECUV1H180JRX | S.M. CAP | 50V  | 18pF  |
| C112 | ECUV1H223ZFX | S.M. CAP | 50V  | 22nF  |
| C116 | ECUV1H101JCX | S.M. CAP | 50V  | 100pF |
| C206 | ECUV1H332KBW | S.M. CAP | 50V  | 3.3nF |
| C208 | ECEA1HU2R2   | ELECT    | 50V  | 2.2μF |
| C209 | ECEA1CU100   | ELECT    | 16V  | 10μF  |
| C211 | ECUV1H102KBX | S.M. CAP | 50V  | 1nF   |
| C214 | ECEA1HU2R2   | ELECT    | 50V  | 2.2μF |
| C215 | ECUV1H223ZFX | S.M. CAP | 50V  | 22nF  |
| C225 | ECUV1H030CCX | S.M. CAP | 50V  | 30pF  |
| C228 | ECUV1H390JCX | S.M. CAP | 50V  | 39pF  |
| C233 | ECEA1CU220   | ELECT    | 16V  | 22μF  |
| C251 | ECEA1CU471   | ELECT    | 16V  | 470μF |
| C252 | ECUV1H153ZFX | S.M. CAP | 50V  | 15nF  |
| C254 | ECEA1EU101   | ELECT    | 25V  | 100μF |
| C257 | 222236516154 | FILM     | 160V | 150nF |
| C261 | ECUV1H104ZFW | S.M. CAP | 50V  | 100nF |
| C263 | ECEA1HU2R2   | ELECT    | 50V  | 2.2μF |
| C301 | ECEA1CU100   | ELECT    | 16V  | 10μF  |
| C302 | ECUV1H104ZFW | S.M. CAP | 50V  | 100nF |
| C303 | ECUV1H223ZFX | S.M. CAP | 50V  | 22nF  |
| C304 | ECEA1AU331   | ELECT    | 10V  | 330μF |
| C306 | ECUV1H473ZFX | S.M. CAP | 50V  | 47nF  |
| C308 | ECUV1H473ZFX | S.M. CAP | 50V  | 47nF  |

| Ref No. | Part No.     | Description           |
|---------|--------------|-----------------------|
| C309    | ECEA1CU100   | ELECT 16V 10μF        |
| C311    | ECUV1H103ZFX | S.M. CAP 50V 10nF     |
| C312    | ECEA1AU471   | ELECT 10V 470μF       |
| C313    | ECUV1H103ZFX | S.M. CAP 50V 10nF     |
| C351    | ECUV1H471KBX | S.M. CAP 50V 470pF    |
| C352    | ECUV1H561KBX | S.M. CAP 50V 560pF    |
| C353    | ECUV1H471KBX | S.M. CAP 50V 470pF    |
| C355    | ECKC3D152J   | CERAMIC 2KV 1.5nF ▲   |
| C357    | ECKC2H152J   | CERAMIC 500V 1.5nF ▲  |
| C358    | ECEA1HU220   | ELECT 50V 22μF        |
| C360    | ECEA1CU101   | ELECT 16V 100μF       |
| C362    | ECUV1H102ZFX | S.M. CAP 50V 1nF      |
| C368    | ECEA2EU010   | ELECT 250V 1μF        |
| C369    | ECEA1HUR47   | ELECT 50V 0.47μF      |
| C401    | ECQM1H104J   | FILM 50V 100nF        |
| C402    | ECUV1H471JCX | S.M. CAP 50V 470pF    |
| C451    | ECUV1H153ZFX | S.M. CAP 50V 15nF     |
| C452    | ECKC2H471J   | CERAMIC 500V 470pF ▲  |
| C454    | ECQB1H102J   | FILM 50V 1nF          |
| C455    | ECEA1HU101   | ELECT 50V 100μF       |
| C457    | ECEA1EU222   | ELECT 25V 2200μF      |
| C459    | ECEA1EU330   | ELECT 25V 33μF        |
| C501    | ECUV1H472KBX | S.M. CAP 50V 4.7nF    |
| C502    | ECEA1HU010   | ELECT 50V 1μF         |
| C503    | ECUV1H222KBX | S.M. CAP 50V 2.2nF    |
| C504    | ECUV1H821JCX | S.M. CAP 50V 820pF    |
| C505    | ECQM1273KZW  | FILM 100V 27nF        |
| C506    | ECEA1JU100   | ELECT 63V 10μF        |
| C508    | ECEA1CU100   | ELECT 16V 10μF        |
| C512    | ECKC2H222J   | CERAMIC 500V 2200pF ▲ |
| C553    | ECWH12H822J  | CERAMIC 500V 8.2nF ▲  |
| C554    | ECQM4333JC   | FILM 400V 33nF        |
| C556    | ECKC3D152J   | CERAMIC 2KV 1.5nF ▲   |
| C561    | ECKC2H471J   | CERAMIC 500V 470pF ▲  |
| C563    | ECKC2H471J   | CERAMIC 500V 470pF ▲  |
| C564    | ECEA1EU471   | ELECT 25V 470μF       |
| C566    | ECKC2H471J   | CERAMIC 500V 470pF ▲  |
| C567    | ECKC2H561J   | CERAMIC 500V 560pF ▲  |
| C568    | ECEA1VU101   | ELECT 35V 100μF       |
| C569    | ECEA1VU471   | ELECT 35V 470μF       |
| C571    | ECUV1H223KBX | S.M. CAP 50V 22nF     |
| C572    | ECQE1223JF3  | FILM 100V 22nF        |
| C601    | ECUV1H222KBX | S.M. CAP 50V 2.2nF    |
| C602    | ECUV1H150JRX | S.M. CAP 50V 15pF     |
| C604    | ECUV1H392KBX | S.M. CAP 50V 3.9nF    |
| C605    | ECQB1H104J   | FILM 50V 100nF        |
| C606    | ECUV1H104ZFW | S.M. CAP 50V 100nF    |
| C607    | ECUV1H104ZFW | S.M. CAP 50V 100nF    |
| C608    | ECUV1H223ZFX | S.M. CAP 50V 22nF     |
| C609    | ECEA1AU470   | ELECT 10V 47μF        |
| C611    | ECUV1H102KBX | S.M. CAP 50V 1nF      |
| C612    | ECUV1H102KBX | S.M. CAP 50V 1nF      |
| C613    | ECUV1H223ZFX | S.M. CAP 50V 22nF     |
| C620    | ECUV1H103ZFX | S.M. CAP 50V 10nF     |
| C622    | ECEA1AU102   | ELECT 10V 1000μF      |
| C626    | ECUV1H470JCX | S.M. CAP 50V 47pF     |
| C627    | ECUV1H470JCX | S.M. CAP 50V 47pF     |
| C802    | ECQU2A473MN  | FILM 200V 47nF ▲      |
| C803    | ECKC2H472J   | CERAMIC 500V 4.7nF ▲  |
| C804    | ECKC2H472J   | CERAMIC 500V 4.7nF ▲  |
| C805    | ECKC2H472J   | CERAMIC 500V 4.7nF ▲  |
| C806    | ECKC2H472J   | CERAMIC 500V 4.7nF ▲  |
| C807    | ECES2GG101   | ELECT 400V 100μF ▲    |
| C808    | ECKC2H471J   | CERAMIC 500V 470pF ▲  |
| C809    | ECEA1AU330   | ELECT 10V 33μF        |
| C812    | ECKC3D152J   | CERAMIC 2KV 1.5nF ▲   |
| C813    | ECEA1AU221   | ELECT 10V 220μF       |

| Ref No. | Part No.     | Description          |
|---------|--------------|----------------------|
| C814    | ECA2CGE221   | ELECT 160V 220μF     |
| C817    | ECKCNS102J   | CERAMIC 1.2KV 1nF Δ  |
| C818    | ECEA2EU2R2   | ELECT 250V 2.2μF     |
| C821    | ECQM2A104KZ  | FILM 250V 100nF      |
| C822    | ECQM1H104J   | FILM 50V 100nF       |
| C823    | ECKC2H103J   | CERAMIC 50V 10nF Δ   |
| C824    | ECKC3D152J   | CERAMIC 2KV 1.5nF Δ  |
| C851    | ECKC2H471J   | CERAMIC 500V 470pF Δ |
| C852    | ECEA1EU102   | ELECT 25V 1000μF     |
| C853    | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C854    | ECEA0JU101   | ELECT 6.3V 100μF     |
| C855    | ECKC2H471J   | CERAMIC 500V 470pF Δ |
| C857    | ECEA1AU471   | ELECT 10V 470μF      |
| C1204   | ECUV1H104ZFX | S.M. CAP 50V 100nF   |
| C1206   | ECEA0JU471   | ELECT 6.3V 470μF     |
| C1207   | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C1208   | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C1214   | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C1216   | ECEA1CKA101  | ELECT 16V 100μF      |
| C1217   | ECUV1H104ZFW | S.M. CAP 50V 100nF   |
| C1218   | ECUV1H331KBX | S.M. CAP 50V 330pF   |
| C1221   | ECQM1H104J   | FILM 50V 100nF       |
| C1224   | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C1227   | ECUV1H471KBX | S.M. CAP 50V 470pF   |
| C1231   | ECUV1H101JCX | S.M. CAP 50V 100pF   |
| C1232   | ECUV1H220JRX | S.M. CAP 50V 22pF    |
| C1234   | ECUV1H471KBX | S.M. CAP 50V 470pF   |
| C1235   | ECUV1H471KBX | S.M. CAP 50V 470pF   |
| C1236   | ECUV1H471KBX | S.M. CAP 50V 470pF   |
| C1237   | ECUV1H471KBX | S.M. CAP 50V 470pF   |
| C1240   | ECUV1H103ZFX | S.M. CAP 50V 10nF    |
| C1241   | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C1242   | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C1243   | ECEA1HU4R7   | ELECT 50V 4.7μF      |
| C1244   | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C1245   | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C1246   | ECUV1H472KBX | S.M. CAP 50V 4.7nF   |
| C1247   | ECUV1H181JCX | S.M. CAP 50V 180pF   |
| C1248   | ECUV1H472KBX | S.M. CAP 50V 4.7nF   |
| C1249   | ECUV1H223KBX | S.M. CAP 50V 22nF    |
| C1252   | ECEA1HU010   | ELECT 50V 1μF        |
| C1253   | ECEA1HU4R7   | ELECT 50V 4.7μF      |
| C1255   | ECUV1H560JCX | S.M. CAP 50V 56pF    |
| C1256   | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C1263   | ECEA1CU100   | ELECT 16V 10μF       |
| C3101   | ECEA1AU471   | ELECT 10V 470μF      |
| C3104   | ECEA1CU100   | ELECT 16V 10μF       |
| C3115   | ECUV1H102KBX | S.M. CAP 50V 1nF     |
| C3301   | ECUV1H104ZFW | S.M. CAP 50V 100nF   |
| C3302   | ECUV1H104ZFW | S.M. CAP 50V 100nF   |
| C3303   | ECUV1H104ZFW | S.M. CAP 50V 100nF   |

| Ref No.                    | Part No.     | Description       |
|----------------------------|--------------|-------------------|
| <b>DIODES</b>              |              |                   |
| D201                       | MA29TA5      | DIODE             |
| D251                       | PMLL4148L    | DIODE             |
| D301                       | MA4091       | DIODE             |
| D302                       | MA4091       | DIODE             |
| D303                       | MA4091       | DIODE             |
| D304                       | MA4022       | DIODE             |
| D355                       | PMLL4148L    | DIODE             |
| D356                       | PMLL4148L    | DIODE             |
| D357                       | PMLL4148L    | DIODE             |
| D358                       | PMLL4148L    | DIODE             |
| D451                       | ERA15-02V3   | DIODE             |
| D452                       | MA4360       | DIODE             |
| D453                       | MA165TA5     | DIODE             |
| D505                       | MA4360       | DIODE             |
| D506                       | MA4075       | DIODE             |
| D507                       | MA165TA5     | DIODE             |
| D551                       | ERD07-15L7   | DIODE             |
| D552                       | RU2AMLFA1    | DIODE             |
| D561                       | ERA22-02V3   | DIODE             |
| D562                       | ERA22-02V3   | DIODE             |
| D563                       | MA167TA5     | DIODE             |
| D564                       | ERD32-02L7   | DIODE             |
| D565                       | EU02         | DIODE             |
| D602                       | MA4051       | DIODE             |
| D604                       | PMLL4148L    | DIODE             |
| D801                       | EM02BM       | DIODE             |
| D802                       | EM02BM       | DIODE             |
| D803                       | EM02BM       | DIODE             |
| D804                       | EM02BM       | DIODE             |
| D805                       | 232266296319 | THERMISTOR        |
| D806                       | AU02AV0      | DIODE             |
| D807                       | K2NLF A1     | DIODE             |
| D808                       | ERA15-02V3   | DIODE             |
| D809                       | BYD31D-26MM  | DIODE             |
| D810                       | ERA15-02V3   | DIODE             |
| D811                       | BYD31D-26MM  | DIODE             |
| D812                       | MA4062       | DIODE             |
| D813                       | PC120FY      | I.C.              |
| D816                       | BYD31D-26MM  | DIODE             |
| D818                       | ERA15-02V3   | DIODE             |
| D821                       | AU02V0       |                   |
| D851                       | RU2AMLFA1    | DIODE             |
| D852                       | AU02V0       |                   |
| D854                       | MA4082       | DIODE             |
| D856                       | AU02V0       |                   |
| D1202                      | PMLL4148L    | DIODE             |
| D1203                      | LN81RPHL     | DIODE             |
| D1205                      | PMLL4148L    | DIODE             |
| D1207                      | PMLL4148L    | DIODE             |
| D1208                      | PMLL4148L    | DIODE             |
| D1209                      | PMLL4148L    | DIODE             |
| D1211                      | MA4082       | DIODE             |
| D1212                      | PMLL4148L    | DIODE             |
| D1214                      | PMLL4148L    | DIODE             |
| D1215                      | PMLL4148L    | DIODE             |
| D1217                      | PMLL4148L    | DIODE             |
| D3101                      | PMLL4148L    | DIODE             |
| D3102                      | MA4051       | DIODE             |
| <b>INTEGRATED CIRCUITS</b> |              |                   |
| IC012                      | UPC574J      | REGULATOR         |
| IC1202                     | MN152811TBS  | MICRO PROCESSOR   |
| IC1203                     | MN1280R      | RESET             |
| IC1205                     | ST24C02AB1   | EEPROM            |
| IC251                      | AN5265       | AUDIO OUTPUT I.C. |
| IC451                      | TDA3654      | VERTICAL OUT I.C. |
| IC601                      | TDA8361      | VIDEO PROCESSOR   |

| Ref No. | Part No.   | Description            |
|---------|------------|------------------------|
| IC602   | TDA4662    | DELAY LINE             |
| IC801   | STR51424-M | POWER SUPPLY REGULATOR |
| IC851   | L78M05MRB  | 5V REGULATOR           |
| IC852   | L78M12MRB  | 12V REGULATOR          |

### COILS

|       |            |             |
|-------|------------|-------------|
| L011  | EXCELSA35T | COIL        |
| L012  | ELESN8K2A  | COIL        |
| L103  | TL1157X57  | COIL        |
| L104  | EIV7EN190B | COIL        |
| L207  | ELEXT4R7KA | COIL        |
| L351  | ELESN181KA | COIL        |
| L352  | ELESN181KA | COIL        |
| L353  | ELESN181KA | COIL        |
| L354  | EXCELD35V  | COIL        |
| L355  | EXCELD35V  | COIL        |
| L356  | EXCELD35V  | COIL        |
| L451  | ELESN8K2A  | COIL        |
| L552  | ELH16F784  | COIL        |
| L553  | ELH5L401   | COIL        |
| L801  | ELF18D450G | LINE FILTER |
| L854  | EXCELSA35T | COIL        |
| L1201 | ELESN1R0KA | COIL        |
| L1218 | ELESN331KA | COIL        |
| L1221 | EXCELSA35T | COIL        |
| L3106 | ELC08D055  | COIL        |

### TRANSISTORS

|       |            |            |
|-------|------------|------------|
| Q102  | BC847B     | TRANSISTOR |
| Q202  | BC847B     | TRANSISTOR |
| Q251  | BC847B     | TRANSISTOR |
| Q301  | BC847B     | TRANSISTOR |
| Q351  | 2SC2923-RL | TRANSISTOR |
| Q352  | 2SC2923-RL | TRANSISTOR |
| Q353  | 2SC2923-RL | TRANSISTOR |
| Q356  | BC857B     | TRANSISTOR |
| Q501  | 2SD836-AL  | TRANSISTOR |
| Q502  | BC857B     | TRANSISTOR |
| Q503  | BC847B     | TRANSISTOR |
| Q504  | BC847B     | TRANSISTOR |
| Q551  | BU2506DFLB | TRANSISTOR |
| Q803  | 2SD1272QLB | TRANSISTOR |
| Q804  | BC847B     | TRANSISTOR |
| Q805  | BC847B     | TRANSISTOR |
| Q853  | BC857B     | TRANSISTOR |
| Q1201 | BC857B     | TRANSISTOR |
| Q1202 | BC847B     | TRANSISTOR |
| Q1203 | BC847B     | TRANSISTOR |
| Q1205 | BC847B     | TRANSISTOR |
| Q1206 | BC847B     | TRANSISTOR |
| Q1207 | BC847B     | TRANSISTOR |
| Q1208 | UN2213TX   | TRANSISTOR |
| Q1209 | BC847B     | TRANSISTOR |
| Q1210 | 2SD965-R   | TRANSISTOR |
| Q1211 | BC847B     | TRANSISTOR |
| Q1212 | 2SC3311ATA | TRANSISTOR |
| Q1213 | BC847B     | TRANSISTOR |
| Q1214 | 2SC3311ATA | TRANSISTOR |
| Q3101 | 2SC1318-S  | TRANSISTOR |
| Q3102 | BC857B     | TRANSISTOR |
| Q3103 | BC847B     | TRANSISTOR |
| Q3104 | BC857B     | TRANSISTOR |
| Q3105 | BC847B     | TRANSISTOR |
| Q3301 | BC847B     | TRANSISTOR |

| Ref No.          | Part No.     | Description            |
|------------------|--------------|------------------------|
| <b>RESISTORS</b> |              |                        |
| R016             | ERG2SJS273   | METAL 2W 5% 27KΩ       |
| R109             | EVND4AA00B14 | CONTROL 10KΩ           |
| R254             | ERQ14AJ100   | METAL 0.25W 5% 10Ω ▲   |
| R259             | ERQ1CJP120   | METAL 1W 5% 12Ω ▲      |
| R302             | ERQ14AJ470   | METAL 0.25W 5% 47Ω ▲   |
| R305             | ERDS1TJ391   | CARBON 0.5W 5% 390Ω    |
| R306             | EVNDCAA03B14 | CONTROL 10KΩ           |
| R316             | EVND4AA00B53 | CONTROL 5KΩ            |
| R351             | ERG2ANJ103   | METAL 2W 5% 10KΩ       |
| R352             | ERG2ANJ103   | METAL 2W 5% 10KΩ       |
| R353             | ERG2ANJ103   | METAL 2W 5% 10KΩ       |
| R354             | ERJ6GEYJ680  | S.M.CARB 0.1W 5% 68Ω   |
| R355             | ERJ6GMYJ271  | S.M.CARB 0.1W 5% 270Ω  |
| R356             | ERJ6GEYJ680  | S.M.CARB 0.1W 5% 68Ω   |
| R357             | EVN65UA00B32 | CONTROL 300Ω           |
| R358             | EVN65UA00B32 | CONTROL 300Ω           |
| R359             | ERJ6GEYJ681  | S.M.CARB 0.1W 5% 680Ω  |
| R360             | ERJ6GEYJ681  | S.M.CARB 0.1W 5% 680Ω  |
| R361             | ERJ6GEYJ681  | S.M.CARB 0.1W 5% 680Ω  |
| R362             | EVN65UA00B23 | CONTROL 2KΩ            |
| R363             | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R364             | EVN65UA00B23 | CONTROL 2KΩ            |
| R365             | ERDS1FJ152   | CARBON 0.5W 5% 1K5Ω ▲  |
| R366             | ERDS1TJ152   | CARBON 0.5W 5% 1K5Ω    |
| R367             | ERDS1TJ152   | CARBON 0.5W 5% 1K5Ω    |
| R368             | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R369             | EVN65UA00B23 | CONTROL 2KΩ            |
| R370             | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R374             | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R376             | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R377             | ERJ6GEYJ391  | S.M.CARB 0.1W 5% 390Ω  |
| R378             | ERD25TJ274   | CARBON 0.25W 5% 270KΩ  |
| R379             | ERJ6GEYJ183  | S.M.CARB 0.1W 5% 18KΩ  |
| R380             | ERJ6GEYJ684  | S.M.CARB 0.1W 5% 680KΩ |
| R455             | ERG1SJ561    | METAL 1W 5% 560Ω       |
| R456             | ERDS1TJ471   | CARBON 0.5W 5% 470Ω    |
| R457             | ERDS1TJ331   | CARBON 0.5W 5% 330Ω    |
| R458             | ERG2SJ122    | METAL 2W 5% 1K2Ω       |
| R459             | ERDS1TJ222   | CARBON 0.5W 5% 2K2Ω    |
| R461             | ERDS1TJ432   | CARBON 0.5W 5% 4K3Ω    |
| R465             | EVNDCAA03B22 | CONTROL 200Ω           |
| R502             | EVND4AA00B14 | CONTROL 10KΩ           |
| R507             | ERG2ANJ471   | METAL 2W 5% 470Ω       |
| R517             | ERG3SJS101   | METAL 3W 5% 10Ω        |
| R518             | ERD25TJ103   | CARBON 0.25W 5% 10KΩ   |
| R520             | ERQ12HJ1R0   | METAL 0.5W 5% 1R0Ω ▲   |
| R553             | ERQ1CJP102   | METAL 1W 5% 1KΩ ▲      |
| R572             | ERD25TJ151   | CARBON 0.25W 5% 150Ω   |
| R602             | ERG2SJS470   | METAL 2W 5% 47Ω        |
| R607             | EVND4AA00B14 | CONTROL 10KΩ           |
| R801             | ERF5ZK2R7    | WOUND 5W 20% 2.7Ω ▲    |
| R802             | ERDS1TJ184   | CARBON 0.5W 5% 180K    |
| R803             | ERDS1TJ561   | CARBON 0.5W 5% 560Ω    |
| R804             | ERD25TJ561   | CARBON 0.25W 5% 560Ω   |
| R806             | ERX1SJ8R2    | METAL 0.5W 5% 8R2Ω     |
| R807             | ERC12ZGK335D | SOLID 0.5W 10% 3M3Ω    |
| R810             | ERDS1TJ104   | CARBON 0.5W 5% 100KΩ   |
| R813             | ERDS1TJ334   | CARBON 0.5W 5% 330KΩ   |
| R815             | ERD75TAJ825  | CARBON 0.75W 5% 8M2Ω ▲ |
| R818             | ERDS1TJ154   | CARBON 0.5W 5% 150K    |
| R819             | ERDS1TJ124   | CARBON 0.5W 5% 120KΩ   |
| R821             | ERDS1TJ334   | CARBON 0.5W 5% 330KΩ   |
| R822             | ERG2ANJ683   | METAL 2W 5% 68KΩ       |
| R828             | ERW12PKR33   | WOUND 0.5W 10% 0R33Ω ▲ |
| R1209            | ERJ6GMYJ271  | S.M.CARB 0.1W 5% 270Ω  |
| R1216            | ERJ6ENF4871  | S.M.CARB 0.1W 1% 4K87Ω |
| R1217            | ERJ6ENF3161  | S.M.CARB 0.1W 1% 3K16Ω |
| R1218            | ERJ6ENF2371  | S.M.CARB 0.1W 1% 2K37Ω |

| Ref No.         | Part No.    | Description            |
|-----------------|-------------|------------------------|
| R1219           | ERJ6ENF2371 | S.M.CARB 0.1W 1% 2K37Ω |
| R1221           | ERJ6ENF1002 | S.M.CARB 0.1W 1% 10KΩ  |
| R1283           | P1201       | SENSOR                 |
| R3105           | ERDS1TJ101  | CARBON 0.5W 5% 500Ω    |
| R3106           | ERDS1TJ750  | CARBON 0.5W 5% 75Ω     |
| <b>SWITCHES</b> |             |                        |
| S301            | EVQRBAL10   | SWITCH                 |
| S451            | EVQRDSL12   | SWITCH                 |
| S801            | ESB91232A   | SWITCH                 |
| S1202           | EVQPB105K   | SWITCH                 |
| S1203           | EVQPB105K   | SWITCH                 |
| S1204           | EVQPB105K   | SWITCH                 |
| S1205           | EVQPB105K   | SWITCH                 |
| S1206           | EVQPB105K   | SWITCH                 |

| Ref No.             | Part No.     | Description         |
|---------------------|--------------|---------------------|
| <b>TRANSFORMERS</b> |              |                     |
| T201                | EIS7ES710B   | TRANSFORMER         |
| T551                | TLH15461M    | COIL                |
| T552                | TLF15639F    | FLYBACK TRANSFORMER |
| T801                | ETS39AF1W7AC | TRANSFORMER         |
| <b>FILTERS</b>      |              |                     |
| X101                | F1045A       | FILTER              |
| X203                | EFCS6R0MS5   | FILTER              |
| X301                | EFCS6R0MW3   | FILTER              |
| X601                | TSS116M1     | CRYSTAL             |
| X1201               | EFOGC6004A4  | FILTER              |

## REPLACEMENT PARTS LIST TX-21S1T

| Ref No.                         | Part No.     | Description        |
|---------------------------------|--------------|--------------------|
| <b>MISCELLANEOUS COMPONENTS</b> |              |                    |
| 12)                             | TBM8E1334    | REAR COVER LABEL   |
| 13)                             | TNP8EE004AB  | E P.C.B.           |
| 14)                             | TNP8ET001AA  | T P.C.B.           |
|                                 | TQB8E0839    | INSTRUCTION BOOK   |
| <b>CAPACITORS</b>               |              |                    |
| C016                            | ECEA1CU100   | ELECT 16V 10μF     |
| C022                            | ECEA1HGE330  | ELECT 50V 33μF     |
| C103                            | ERJ6GEY0R00  | WIRE LINK          |
| C216                            | ECEA1CU220   | ELECT 16V 22μF     |
| C253                            | ECEA1HFS2R2  | S.M. CAP 50V 2.2μF |
| C255                            | ECEA1CGE330  | ELECT 16V 33μF     |
| C256                            | 222236516224 | FILM 160V 220nF    |
| C258                            | ECEA1EGE222  | ELECT 25V 2200μF   |
| C259                            | ECEA1EU102   | ELECT 25V 1000μF   |
| C305                            | ECQM1H104J   | FILM 50V 100nF     |
| C307                            | ECUV1H102KBX | S.M. CAP 50V 1nF   |
| C456                            | ECEA1HN4R7   | ELECT 50V 4.7μF    |
| C458                            | ECEA1CN470   | ELECT 16V 47μF     |
| C461                            | ECEA1VGE102  | ELECT 35V 1000μF   |
| C507                            | ECEA1HFS2R2  | S.M. CAP 50V 2.2μF |
| C509                            | ECEA1AGE471  | ELECT 10V 470μF    |
| C511                            | ECEA1HGE100  | ELECT 50V 10μF     |
| C551                            | ECKC3D102J   | CERAMIC 2KV 1nF    |
| C555                            | ECQM4333JC   | FILM 400V 33nF     |
| C557                            | ECKC3D122J   | CERAMIC 2KV 1200pF |
| C558                            | ECWF2H474J   | FILM 500V 470nF    |
| C562                            | ECEA2EGE100  | ELECT 250V 10μF    |
| C565                            | ECEA2CU2R2   | ELECT 160V 2.2μF   |
| C856                            | ECEA1HGE471  | ELECT 50V 470μF    |
| C858                            | ECEA1EGE100  | ELECT 25V 10μF     |
| C859                            | ECEA1EGE100  | ELECT 25V 10μF     |
| C1205                           | ECEA1EU101   | ELECT 25V 100μF    |
| C1226                           | ECUV1H101JCX | S.M. CAP 50V 100pF |
| C1228                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1238                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1239                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1251                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1257                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1258                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1259                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1261                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C1262                           | ECUV1H471JCX | S.M. CAP 50V 470pF |
| C3117                           | ECEA1AU101   | ELECT 10V 100μF    |

| Ref No.       | Part No.     | Description        |
|---------------|--------------|--------------------|
| C3118         | ECEA1ESN3R3  | ELECT 25V 3R3μF    |
| C3501         | ECEA1CU470   | ELECT 16V 47μF     |
| C3502         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3503         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3504         | ECUV1H221JX  | S.M. CAP 50V 220pF |
| C3505         | ECUV1H150JCX | S.M. CAP 50V 15pF  |
| C3506         | ECUV1H221JX  | S.M. CAP 50V 220pF |
| C3507         | ECUV1H150JCX | S.M. CAP 50V 15pF  |
| C3508         | ECEA1CN100   | ELECT 16V 10μF     |
| C3509         | ECEA1CU471   | ELECT 16V 470μF    |
| C3510         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3511         | ECEA1CN100   | ELECT 16V 10μF     |
| C3512         | ECEA1CN100   | ELECT 16V 10μF     |
| C3513         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3514         | ECEA1CU470   | ELECT 16V 47μF     |
| C3515         | ECEA1CN100   | ELECT 16V 10μF     |
| C3516         | ECEA1HU2R2   | ELECT 50V 2.2μF    |
| C3517         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3519         | ECEA1CN220   | ELECT 16V 22μF     |
| C3520         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3521         | ECEA0JU101   | ELECT 6.3V 100μF   |
| C3523         | ECUV1H104ZFX | S.M. CAP 50V 100nF |
| C3524         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3526         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3527         | ECEA1AU221   | ELECT 10V 220μF    |
| C3531         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3532         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3533         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3534         | ECEA1CU101   | ELECT 16V 100μF    |
| C3535         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3536         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3537         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3538         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3539         | ECEA1CU100   | ELECT 16V 10μF     |
| C3540         | ECEA1CN470   | ELECT 16V 47μF     |
| C3541         | ECEA1CU471   | ELECT 16V 470μF    |
| C3542         | ECEA1CU221   | ELECT 16V 220μF    |
| C3543         | ECUV1H104ZFW | S.M. CAP 50V 100nF |
| C3544         | ECUV1H103ZFX | S.M. CAP 50V 10nF  |
| C3545         | ECUV1H470JCX | S.M. CAP 50V 47pF  |
| C3577         | ECUV1H223KBX | S.M. CAP 50V 22nF  |
| <b>DIODES</b> |              |                    |
| D305          | MA165TA5     | DIODE              |
| D817          | MA1039MTA    | DIODE              |
| D820          | TF341M-A-RL  | THYRISTOR          |
| D822          | PC120FY      | DIODE              |

| Ref No. | Part No.  | Description |
|---------|-----------|-------------|
| D855    | MA4051    | DIODE       |
| D857    | MA4200    | DIODE       |
| D3503   | MA165TA5  | DIODE       |
| D3505   | MA165TA5  | DIODE       |
| D3506   | MA165TA5  | DIODE       |
| D3507   | MA165TA5  | DIODE       |
| D3508   | MA165TA5  | DIODE       |
| D3509   | MA165TA5  | DIODE       |
| D3510   | MA165TA5  | DIODE       |
| D3515   | MA165TA5  | DIODE       |
| D3517   | PMLL4148L | DIODE       |
| D3518   | PMLL4148L | DIODE       |

## INTEGRATED CIRCUITS

|        |              |                    |
|--------|--------------|--------------------|
| IC1204 | RPM-637CBRS1 | LED RECEIVER       |
| IC3501 | CF72306      | TELETEXT PROCESSOR |
| IC3502 | CF70205ANW   | TELETEXT CONTROL   |
| IC3503 | L78M05MRB    | 5V REGULATOR       |
| IC3504 | LA7222-TV    | SWITCHING          |
| IC3505 | AN5862K      | SWITCHING          |
| IC3506 | MN1280R      | RESET              |

## COILS

|       |            |      |
|-------|------------|------|
| L301  | ELESN100KA | COIL |
| L307  | ELESN150KA | COIL |
| L3501 | ELESN100KA | COIL |
| L3503 | ELESN100KA | COIL |
| L3504 | ELESN100KA | COIL |
| L3505 | ELESN100KA | COIL |

## TRANSISTORS

|       |           |            |
|-------|-----------|------------|
| Q1240 | BC847B    | TRANSISTOR |
| Q3503 | BC847B    | TRANSISTOR |
| Q3504 | BC847B    | TRANSISTOR |
| Q3505 | BC847B    | TRANSISTOR |
| Q3506 | BC847B    | TRANSISTOR |
| Q3508 | BC857B    | TRANSISTOR |
| Q3509 | BC847B    | TRANSISTOR |
| Q3510 | BC847B    | TRANSISTOR |
| Q3511 | UN2213TX  | TRANSISTOR |
| Q3512 | 2SD601ATX | TRANSISTOR |
| Q3513 | BC847B    | TRANSISTOR |
| Q3514 | BC847B    | TRANSISTOR |

## RESISTORS

|       |             |           |      |          |
|-------|-------------|-----------|------|----------|
| R.319 | ERJ6GEY0R00 | WIRE LINK |      |          |
| R011  | ERJ6GEY0R00 | WIRE LINK |      |          |
| R012  | ERJ6GEY0R00 | WIRE LINK |      |          |
| R015  | ERJ6GEYJ153 | S.M.CARB  | 0.1W | 5% 15KΩ  |
| R101  | ERJ6GEY0R00 | WIRE LINK |      |          |
| R103  | ERJ6GEY0R00 | WIRE LINK |      |          |
| R107  | ERJ6GEYJ681 | S.M.CARB  | 0.1W | 5% 680Ω  |
| R108  | ERJ6GEYJ562 | S.M.CARB  | 0.1W | 5% 5.6KΩ |
| R111  | ERJ6GEYJ122 | S.M.CARB  | 0.1W | 5% 1K2Ω  |
| R112  | ERJ6GEYJ334 | RESISTOR  |      |          |
| R113  | ERJ6GEYJ334 | RESISTOR  |      |          |
| R114  | ERJ6GEYJ472 | S.M.CARB  | 0.1W | 5% 4.7KΩ |
| R115  | ERJ6GEYJ103 | S.M.CARB  | 0.1W | 5% 10KΩ  |
| R116  | ERJ6GEYJ183 | S.M.CARB  | 0.1W | 5% 18KΩ  |
| R117  | ERJ6GMYJ271 | S.M.CARB  | 0.1W | 5% 270Ω  |
| R118  | ERJ6GEYJ221 | S.M.CARB  | 0.1W | 5% 220Ω  |
| R119  | ERJ6GEYJ682 | S.M.CARB  | 0.1W | 5% 6K8Ω  |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R123    | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |
| R124    | ERJ6GEYJ114 | S.M.CARB 0.1W 5% 110KΩ |
| R204    | ERJ6GEYJ182 | S.M.CARB 0.1W 5% 1K8Ω  |
| R205    | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |
| R207    | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R208    | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R209    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R216    | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R232    | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680Ω  |
| R251    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R253    | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R255    | ERJ6GEYJ332 | S.M.CARB 0.1W 5% 3K3Ω  |
| R256    | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R257    | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω  |
| R258    | ERD25TJ103  | CARBON 0.25W 5% 10KΩ   |
| R261    | ERJ6GEYJ3R3 | S.M.CARB 0.1W 5% 3.3Ω  |
| R262    | ERJ6GEYJ182 | S.M.CARB 0.1W 5% 1K8Ω  |
| R263    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R301    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R303    | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R304    | ERJ6GEYJ181 | S.M.CARB 0.1W 5% 180Ω  |
| R307    | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R308    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R309    | ERJ6GEYJ821 | S.M.CARB 0.1W 5% 820Ω  |
| R310    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R311    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R312    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R313    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R314    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R315    | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R317    | ERJ6GEYJ393 | S.M.CARB 0.1W 5% 39KΩ  |
| R318    | ERJ6GEYJ913 | S.M.CARB 0.1W 5% 91KΩ  |
| R320    | ERD25TJ102  | CARBON 0.25W 5% 1KΩ    |
| R401    | ERJ6GEYJ334 | S.M.CARB 0.1W 5% 330KΩ |
| R403    | ERJ6GEYJ335 | S.M.CARB 0.1W 5% 3M3Ω  |
| R451    | ERJ6GEYJ432 | S.M.CARB 0.1W 5% 4.3KΩ |
| R452    | ERJ6GEYJ432 | S.M.CARB 0.1W 5% 4.3KΩ |
| R462    | ERJ6GEYJ122 | S.M.CARB 0.1W 5% 1K2Ω  |
| R463    | ERJ6GEYJ682 | S.M.CARB 0.1W 5% 6K8Ω  |
| R464    | ERDS1TJ1R8  | CARBON 0.5W 5% 1R8Ω    |
| R466    | ERJ6GEYJ470 | S.M.CARB 0.1W 5% 47Ω   |
| R467    | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |
| R468    | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R469    | ERJ6GEY0R00 | WIRE LINK              |
| R471    | ERD25TJ681  | CARBON 0.25W 5% 680Ω   |
| R501    | ERJ6GEYJ123 | S.M.CARB 0.1W 5% 12KΩ  |
| R503    | ERJ6GEYJ824 | S.M.CARB 0.1W 5% 820KΩ |
| R504    | ERJ6GEYJ273 | S.M.CARB 0.1W 5% 27KΩ  |
| R505    | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R506    | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R508    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R509    | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R512    | ERJ6GEYJ474 | S.M.CARB 0.1W 5% 470KΩ |
| R513    | ERJ6GEYJ333 | S.M.CARB 0.1W 5% 33KΩ  |
| R514    | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |
| R516    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R518    | ERD25TJ682  | CARBON 0.25W 5% 6K8Ω   |
| R519    | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R521    | ERQ2CJP8R2  | METAL 2W 5% 8R2Ω ▲     |
| R522    | ERQ12HJ1R2  | METAL 0.5W 5% 1R2Ω ▲   |
| R564    | ERQ12HJ2R2  | FUSABLE 0.5W 5% 2R2Ω ▲ |
| R566    | ERD25TJ224  | CARBON 0.25W 5% 220KΩ  |
| R567    | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R568    | ERQ12HJ8R2  | METAL 0.5W 5% 8R2Ω ▲   |
| R571    | ERJ6GEYJ680 | S.M.CARB 0.1W 5% 68Ω   |
| R601    | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R608    | ERJ6GEYJ332 | S.M.CARB 0.1W 5% 3K3Ω  |
| R616    | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R622    | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |
| R623    | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |

| Ref No. | Part No.    | Description            |   |
|---------|-------------|------------------------|---|
| R624    | ERJ6GEYJ332 | S.M.CARB 0.1W 5% 3K3Ω  |   |
| R625    | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R805    | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω  |   |
| R809    | TSF19401    | FS LINK                | Δ |
| R811    | ERJ6GEYJ332 | S.M.CARB 0.1W 5% 3K3Ω  |   |
| R812    | ERQ12HJ330  | METAL 0.5W 5% 33Ω      | Δ |
| R814    | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |   |
| R816    | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |   |
| R817    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R823    | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |   |
| R824    | ERDS1TJ683  | CARBON 0.5W 5% 68KΩ    |   |
| R825    | ERDS1TJ683  | CARBON 0.5W 5% 68KΩ    |   |
| R826    | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |   |
| R827    | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |   |
| R854    | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R855    | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |   |
| R856    | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680Ω  |   |
| R858    | ERJ6GEYJ182 | S.M.CARB 0.1W 5% 1K8Ω  |   |
| R1151   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1152   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1201   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |   |
| R1202   | ERJ6GEYJ563 | S.M.CARB 0.1W 5% 56KΩ  |   |
| R1203   | ERJ6GEYJ100 | S.M.CARB 0.1W 5% 10Ω   |   |
| R1204   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |   |
| R1205   | ERJ6GEYJ333 | S.M.CARB 0.1W 5% 33KΩ  |   |
| R1206   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |   |
| R1207   | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |   |
| R1208   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |   |
| R1210   | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |   |
| R1211   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |   |
| R1213   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |   |
| R1214   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |   |
| R1220   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1222   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1223   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1224   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1225   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1226   | ERJ6GEYJ123 | S.M.CARB 0.1W 5% 12KΩ  |   |
| R1227   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1228   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1229   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1230   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1231   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1232   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |   |
| R1233   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |   |
| R1234   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1235   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1236   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1237   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1238   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |   |
| R1239   | ERJ6GEYJ564 | S.M.CARB 0.1W 5% 560KΩ |   |
| R1240   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1241   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1242   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1243   | ERJ6GEYJ752 | S.M.CARB 0.1W 5% 7.5KΩ |   |
| R1244   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1245   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1246   | ERJ6GEYJ122 | S.M.CARB 0.1W 5% 1K2Ω  |   |
| R1247   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1248   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1249   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1250   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1251   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |   |
| R1252   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |   |
| R1253   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |   |
| R1254   | ERJ6GEYOR00 | WIRE LINK              |   |
| R1255   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |   |
| R1256   | ERJ6GEYJ183 | S.M.CARB 0.1W 5% 18KΩ  |   |
| R1257   | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |   |
| R1258   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |   |
| R1259   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |   |

| Ref No. | Part No.    | Description            |  |
|---------|-------------|------------------------|--|
| R1260   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R1261   | ERJ6GEYJ472 | S.M.CARB 0.1W 5% 4.7KΩ |  |
| R1262   | ERJ6GEYJ123 | S.M.CARB 0.1W 5% 12KΩ  |  |
| R1263   | ERJ6GEYJ563 | S.M.CARB 0.1W 5% 56KΩ  |  |
| R1264   | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680Ω  |  |
| R1266   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |  |
| R1267   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |  |
| R1268   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |  |
| R1269   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |  |
| R1270   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R1271   | ERJ6GEYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |  |
| R1272   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |  |
| R1273   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |  |
| R1275   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |  |
| R1276   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |  |
| R1277   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |  |
| R1278   | ERJ6GEYJ823 | S.M.CARB 0.1W 5% 82KΩ  |  |
| R1279   | ERJ6GEYJ184 | S.M.CARB 0.1W 5% 180KΩ |  |
| R1280   | ERJ6GEYOR00 | WIRE LINK              |  |
| R1281   | ERJ6GEYJ683 | S.M.CARB 0.1W 5% 68KΩ  |  |
| R1282   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R1284   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R1285   | ERJ6GEYOR00 | WIRE LINK              |  |
| R1287   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |  |
| R1288   | ERJ6GEYJ563 | S.M.CARB 0.1W 5% 56KΩ  |  |
| R1289   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R1290   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |  |
| R1291   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R1292   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |  |
| R1293   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |  |
| R1294   | ERJ6GEYOR00 | WIRE LINK              |  |
| R1296   | ERJ6GEYOR00 | WIRE LINK              |  |
| R1297   | ERJ6GEYOR00 | WIRE LINK              |  |
| R1298   | ERJ6GEYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |  |
| R1299   | ERJ6GEYOR00 | WIRE LINK              |  |
| R3101   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R3102   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |  |
| R3103   | ERJ6GEYJ272 | S.M.CARB 0.1W 5% 2K7Ω  |  |
| R3108   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |  |
| R3109   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |  |
| R3112   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |  |
| R3115   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |  |
| R3116   | ERJ6GEYJ750 | S.M.CARB 0.1W 5% 75Ω   |  |
| R3117   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R3118   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |  |
| R3119   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |  |
| R3120   | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10KΩ  |  |
| R3121   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |  |
| R3122   | ERJ6GEYJ104 | S.M.CARB 0.1W 5% 100KΩ |  |
| R3123   | ERJ6GEYJ393 | S.M.CARB 0.1W 5% 39KΩ  |  |
| R3124   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |  |
| R3125   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |  |
| R3126   | ERJ6GEYJ273 | S.M.CARB 0.1W 5% 27KΩ  |  |
| R3127   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |  |
| R3128   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |  |
| R3131   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |  |
| R3132   | ERJ6GEYJ562 | S.M.CARB 0.1W 5% 5.6KΩ |  |
| R3134   | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |  |
| R3137   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |  |
| R3301   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R3302   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |  |
| R3303   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |  |
| R3304   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |  |
| R3305   | ERJ6GEYOR00 | WIRE LINK              |  |
| R3306   | ERJ6GEYJ471 | S.M.CARB 0.1W 5% 470Ω  |  |
| R3308   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |  |
| R3309   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |  |
| R3310   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |  |
| R3501   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R3502   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |
| R3503   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |  |

| Ref No. | Part No.     | Description            |
|---------|--------------|------------------------|
| R3504   | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R3505   | ERJ6GEYJ562  | S.M.CARB 0.1W 5% 5.6KΩ |
| R3506   | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R3507   | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R3508   | ERQ14AJ100   | METAL 0.25W 5% 10Ω ▲   |
| R3509   | ERJ6GEYJ221  | S.M.CARB 0.1W 5% 220Ω  |
| R3510   | ERJ6GEY0R00  | WIRE LINK              |
| R3513   | ERJ6GEYJ473  | S.M.CARB 0.1W 5% 47KΩ  |
| R3514   | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R3515   | EVND4AA00B24 | CONTROL 20KΩ           |
| R3516   | ERJ6GEYJ123  | S.M.CARB 0.1W 5% 12KΩ  |
| R3517   | ERJ6GEYJ104  | S.M.CARB 0.1W 5% 100KΩ |
| R3521   | ERJ6GEYJ153  | S.M.CARB 0.1W 5% 15KΩ  |
| R3522   | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R3523   | ERJ6GEYJ101  | S.M.CARB 0.1W 5% 100Ω  |
| R3524   | ERJ6GEYJ332  | S.M.CARB 0.1W 5% 3K3Ω  |
| R3525   | ERJ6GEYJ470  | S.M.CARB 0.1W 5% 47Ω   |
| R3526   | ERJ6GEYJ470  | S.M.CARB 0.1W 5% 47Ω   |
| R3527   | ERJ6GEYJ470  | S.M.CARB 0.1W 5% 47Ω   |
| R3529   | ERJ6GEYJ222  | S.M.CARB 0.1W 5% 2K2Ω  |
| R3530   | ERJ6GEYJ152  | S.M.CARB 0.1W 5% 1K5Ω  |
| R3531   | ERJ6GEYJ152  | S.M.CARB 0.1W 5% 1K5Ω  |
| R3532   | ERJ6GEYJ152  | S.M.CARB 0.1W 5% 1K5Ω  |
| R3534   | ERJ6GEYJ181  | S.M.CARB 0.1W 5% 180Ω  |
| R3535   | ERJ6GEYJ181  | S.M.CARB 0.1W 5% 180Ω  |
| R3536   | ERJ6GEYJ181  | S.M.CARB 0.1W 5% 180Ω  |
| R3537   | ERD25TJ102   | CARBON 0.25W 5% 1KΩ    |
| R3538   | ERJ6GEYJ681  | S.M.CARB 0.1W 5% 680Ω  |
| R3539   | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R3540   | ERJ6GEYJ103  | S.M.CARB 0.1W 5% 10KΩ  |
| R3541   | ERD25TJ682   | CARBON 0.25W 5% 6K8Ω   |
| R3543   | ERJ6GEYJ471  | S.M.CARB 0.1W 5% 470Ω  |
| R3544   | ERJ6GEYJ102  | S.M.CARB 0.1W 5% 1KΩ   |
| R3545   | ERJ6GEYJ222  | S.M.CARB 0.1W 5% 2K2Ω  |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R3546   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3547   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3548   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3549   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3550   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3551   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3552   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3553   | ERJ6GEYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3554   | ERJ6GEYJ121 | S.M.CARB 0.1W 5% 120Ω  |
| R3555   | ERJ6GEYJ181 | S.M.CARB 0.1W 5% 180Ω  |
| R3556   | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22KΩ  |
| R3557   | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3558   | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω  |
| R3559   | ERJ6GEYJ561 | S.M.CARB 0.1W 5% 560Ω  |
| R3560   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3561   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3562   | ERJ6GEYJ822 | S.M.CARB 0.1W 5% 8.2KΩ |
| R3563   | ERJ6GEYJ183 | S.M.CARB 0.1W 5% 18KΩ  |
| R3564   | ERJ6GEYJ242 | S.M.CARB 0.1W 5% 2K4Ω  |
| R3565   | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3566   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3569   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3571   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R3572   | ERJ6GEYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R3575   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R3576   | ERJ6GEYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R3577   | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1KΩ   |

### FILTERS

X3501 TSS2004-M CRYSTAL

## REPLACEMENT PARTS LIST TC-21S1R

| Ref No.                         | Part No.     | Description          |
|---------------------------------|--------------|----------------------|
| <b>MISCELLANEOUS COMPONENTS</b> |              |                      |
| 12)                             | TBM8E1346    | REAR COVER LABEL     |
| 13)                             | TNP8EE004AN  | E P.C.B. ▲           |
| F801                            | 2153.15      | FUSE                 |
|                                 | TQB8E0839    | INSTRUCTION BOOK ▲   |
| <b>CAPACITORS</b>               |              |                      |
| C016                            | ECEA1CU470   | ELECT 16V 47μF       |
| C022                            | ECEA1HU330   | ELECT 50V 33μF       |
| C103                            | ERJ6GMY0R00  | S.M. WIRE LINK       |
| C207                            | ECUV1H472KBX | S.M. CAP 50V 4.7nF   |
| C216                            | ECEA1CU100   | ELECT 16V 10μF       |
| C253                            | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C255                            | ECEA1CU330   | ELECT 16V 33μF       |
| C258                            | ECEA1EGE102  | ELECT 25V 1000μF     |
| C259                            | ECEA1EU471   | ELECT 25V 470μF      |
| C305                            | ECQM1H474J   | FILM 50V 470nF       |
| C458                            | ECQM1H104J   | FILM 50V 100nF       |
| C461                            | ECEA1VU102   | ELECT 35V 1000μF     |
| C507                            | ECEA1HU2R2   | ELECT 50V 2.2μF      |
| C509                            | ECEA1AU471   | ELECT 10V 470μF      |
| C511                            | ECEA1HU100   | ELECT 50V 10μF       |
| C552                            | ECKC3D391J   | CERAMIC 2KV 390pF ▲  |
| C557                            | ECKC3D152J   | CERAMIC 2KV 1.5nF ▲  |
| C558                            | ECWF2H394JZ  | CERAMIC 500V 390nF ▲ |
| C562                            | ECEA2EU100   | ELECT 250V 10μF      |
| C565                            | ECEA2CU4R7   | ELECT 160V 4.7μF     |
| C856                            | ECEA1HU471   | ELECT 50V 470μF      |

| Ref No. | Part No.   | Description     |
|---------|------------|-----------------|
| C858    | ECEA1EU100 | ELECT 25V 10μF  |
| C859    | ECEA1CU100 | ELECT 16V 10μF  |
| C1205   | ECEA1CU101 | ELECT 16V 100μF |

### DIODES

|      |           |          |
|------|-----------|----------|
| D817 | MA1033MTA | DIODE    |
| D820 | SF2G41RL  | TYRISTOR |
| D855 | MA4056    | DIODE    |
| D857 | MA4160    | DIODE    |

### COILS

|      |            |      |
|------|------------|------|
| L102 | ELESN2R7KA | COIL |
| L301 | ELESN6R8KA | COIL |

### TRANSISTORS

|       |            |            |
|-------|------------|------------|
| Q851  | 2SD1273PLB | TRANSISTOR |
| Q1204 | BC847B     | TRANSISTOR |

### RESISTORS

|      |             |                       |
|------|-------------|-----------------------|
| R015 | ERJ6GMYJ153 | S.M.CARB 0.1W 5% 15KΩ |
| R101 | ERJ6GMY0R00 | S.M. WIRE LINK        |
| R103 | ERJ6GMY0R00 | S.M. WIRE LINK        |
| R107 | ERJ6GMYJ561 | S.M.CARB 0.1W 5% 560Ω |
| R108 | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω |
| R111 | ERJ6GMYJ122 | S.M.CARB 0.1W 5% 1K2Ω |

| Ref No. | Part No.    | Description             |
|---------|-------------|-------------------------|
| R112    | ERJ6GMYJ334 | S.M. CARB 0.1W 5% 330KΩ |
| R113    | ERJ6GMYJ334 | S.M. CARB 0.1W 5% 330KΩ |
| R114    | ERJ6GMYJ472 | S.M. CARB 0.1W 5% 4K7Ω  |
| R115    | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ  |
| R116    | ERJ6GMYJ183 | S.M. CARB 0.1W 5% 18KΩ  |
| R117    | ERJ6GMYOR00 | S.M. WIRE LINK          |
| R118    | ERJ6GMYJ221 | S.M. CARB 0.1W 5% 220Ω  |
| R119    | ERJ6GMYJ682 | S.M. CARB 0.1W 5% 6K8Ω  |
| R123    | ERJ6GMYJ152 | S.M. CARB 0.1W 5% 1K5Ω  |
| R124    | ERJ6GMYJ114 | S.M. CARB 0.1W 5% 110KΩ |
| R204    | ERJ6GMYJ182 | S.M. CARB 0.1W 5% 1K8Ω  |
| R205    | ERJ6GMYJ152 | S.M. CARB 0.1W 5% 1K5Ω  |
| R207    | ERJ6GMYJ153 | S.M. CARB 0.1W 5% 15KΩ  |
| R208    | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ  |
| R209    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R216    | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ  |
| R232    | ERJ6GMYJ681 | S.M. CARB 0.1W 5% 680Ω  |
| R251    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R253    | ERJ6GMYJ221 | S.M. CARB 0.1W 5% 220Ω  |
| R255    | ERJ6GMYJ472 | S.M. CARB 0.1W 5% 4K7Ω  |
| R256    | ERJ6GMYJ471 | S.M. CARB 0.1W 5% 470Ω  |
| R258    | ERD25TJ332  | CARBON 0.25W 5% 3K3Ω    |
| R261    | ERJ6GMYJ3R3 | S.M. CARB 0.1W 5% 3R3Ω  |
| R262    | ERJ6GMYJ182 | S.M. CARB 0.1W 5% 1K8Ω  |
| R263    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R301    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R303    | ERJ6GMYJ221 | S.M. CARB 0.1W 5% 220Ω  |
| R304    | ERJ6GMYJ181 | S.M. CARB 0.1W 5% 180Ω  |
| R307    | ERJ6GMYJ562 | S.M. CARB 0.1W 5% 5K6Ω  |
| R308    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R309    | ERJ6GMYJ821 | S.M. CARB 0.1W 5% 820Ω  |
| R311    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R312    | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω  |
| R313    | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω  |
| R314    | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω  |
| R315    | ERJ6GMYJ104 | S.M. CARB 0.1W 5% 100KΩ |
| R317    | ERJ6GMYJ393 | S.M. CARB 0.1W 5% 39KΩ  |
| R318    | ERJ6GMYJ913 | S.M. CARB 0.1W 5% 91KΩ  |
| R319    | ERJ6GMYOR00 | S.M. WIRE LINK          |
| R401    | ERJ6GMYJ334 | S.M. CARB 0.1W 5% 330KΩ |
| R403    | ERJ6GMYJ335 | S.M. CARB 0.1W 5% 3M3Ω  |
| R451    | ERJ6GMYJ432 | S.M. CARB 0.1W 5% 4K3Ω  |
| R452    | ERJ6GMYJ432 | S.M. CARB 0.1W 5% 4K3Ω  |
| R462    | ERJ6GMYJ122 | S.M. CARB 0.1W 5% 1K2Ω  |
| R463    | ERJ6GMYJ682 | S.M. CARB 0.1W 5% 6K8Ω  |
| R464    | ERDS1TJ2R2  | CARBON 0.5W 5% 2.2Ω     |
| R466    | ERJ6GMYJ470 | S.M. CARB 0.1W 5% 47Ω   |
| R467    | ERJ6GMYJ152 | S.M. CARB 0.1W 5% 1K5Ω  |
| R468    | ERJ6GMYJ331 | S.M. CARB 0.1W 5% 330Ω  |
| R469    | ERJ6GMYOR00 | S.M. WIRE LINK          |
| R501    | ERJ6GMYJ123 | S.M. CARB 0.1W 5% 12KΩ  |
| R503    | ERJ6GMYJ824 | S.M. CARB 0.1W 5% 820KΩ |
| R504    | ERJ6GMYJ273 | S.M. CARB 0.1W 5% 27KΩ  |
| R505    | ERJ6GMYJ471 | S.M. CARB 0.1W 5% 470Ω  |
| R506    | ERJ6GMYJ562 | S.M. CARB 0.1W 5% 5K6Ω  |
| R508    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R509    | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ  |
| R512    | ERJ6GMYJ474 | S.M. CARB 0.1W 5% 470KΩ |
| R513    | ERJ6GMYJ333 | S.M. CARB 0.1W 5% 33KΩ  |
| R514    | ERJ6GMYJ472 | S.M. CARB 0.1W 5% 4K7Ω  |
| R516    | ERJ6GMYJ102 | S.M. CARB 0.1W 5% 1KΩ   |
| R519    | ERJ6GMYJ272 | S.M. CARB 0.1W 5% 2K7Ω  |
| R521    | ERQ12HJ1R5  | FUSIBLE 0.5W 5% 1R5Ω ▲  |
| R522    | ERQ12HJU1R2 | METAL 0.5W 5% 1R2Ω ▲    |
| R564    | ERQ12HJU2R7 | METAL 0.5W 5% 2R7Ω ▲    |
| R566    | ERD25TJ204  | CARBON 0.25W 5% 200KΩ   |
| R567    | ERJ6GMYJ153 | S.M. CARB 0.1W 5% 15KΩ  |
| R568    | ERG2SJS121  | METAL 2W 5% 120Ω        |
| R571    | ERJ6GMYJ680 | S.M. CARB 0.1W 5% 68Ω   |
| R601    | ERJ6GMYJ104 | S.M. CARB 0.1W 5% 100KΩ |
| R608    | ERJ6GMYJ332 | S.M. CARB 0.1W 5% 3K3Ω  |

| Ref No. | Part No.     | Description             |
|---------|--------------|-------------------------|
| R616    | ERJ6GMYJ473  | S.M. CARB 0.1W 5% 47KΩ  |
| R622    | ERJ6GMYJ562  | S.M. CARB 0.1W 5% 5K6Ω  |
| R623    | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R624    | ERJ6GMYJ332  | S.M. CARB 0.1W 5% 3K3Ω  |
| R625    | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R805    | ERJ6GMYJ561  | S.M. CARB 0.1W 5% 560Ω  |
| R809    | ERQ12HJU8R2  | METAL 0.5W 5% 8R2Ω ▲    |
| R811    | ERJ6GMYJ332  | S.M. CARB 0.1W 5% 3K3Ω  |
| R812    | ERQ12HJ220   | METAL 0.5W 5% 22Ω ▲     |
| R814    | ERJ6GMYJ102  | S.M. CARB 0.1W 5% 1KΩ   |
| R816    | ERJ6GMYJ473  | S.M. CARB 0.1W 5% 47KΩ  |
| R817    | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R823    | ERJ6GMYJ472  | S.M. CARB 0.1W 5% 4K7Ω  |
| R827    | ERJ6GMYJ471  | S.M. CARB 0.1W 5% 470Ω  |
| R854    | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R855    | ERJ6GMYJ471  | S.M. CARB 0.1W 5% 470Ω  |
| R856    | ERJ6GMYJ102  | S.M. CARB 0.1W 5% 1KΩ   |
| R858    | ERJ6GMYJ182  | S.M. CARB 0.1W 5% 1K8Ω  |
| R1151   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1152   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1201   | ERJ6GMYJ473  | S.M. CARB 0.1W 5% 47KΩ  |
| R1202   | ERJ6GMYJ563  | S.M. CARB 0.1W 5% 56KΩ  |
| R1203   | ERJ6GMYJ100  | S.M. CARB 0.1W 5% 10Ω   |
| R1204   | ERJ6GMYJ104  | S.M. CARB 0.1W 5% 100KΩ |
| R1205   | ERJ6GMYJ333  | S.M. CARB 0.1W 5% 33KΩ  |
| R1206   | ERJ6GMYJ562  | S.M. CARB 0.1W 5% 5K6Ω  |
| R1207   | ERJ6GMYJ152  | S.M. CARB 0.1W 5% 1K5Ω  |
| R1208   | ERJ6GMYJ473  | S.M. CARB 0.1W 5% 47KΩ  |
| R1210   | ERJ6GMYJ152  | S.M. CARB 0.1W 5% 1K5Ω  |
| R1211   | ERJ6GMYJ562  | S.M. CARB 0.1W 5% 5K6Ω  |
| R1213   | ERJ6GMYJ473  | S.M. CARB 0.1W 5% 47KΩ  |
| R1214   | ERJ6GMYJ153  | S.M. CARB 0.1W 5% 15KΩ  |
| R1215   | ERO25CKF9531 | METAL 0.25W 1% 9K53Ω ▲  |
| R1220   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1222   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1223   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1224   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1225   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1226   | ERJ6GMYJ123  | S.M. CARB 0.1W 5% 12KΩ  |
| R1227   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1228   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1229   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1230   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1231   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1232   | ERJ6GMYJ392  | S.M. CARB 0.1W 5% 3K9Ω  |
| R1233   | ERJ6GMYJ102  | S.M. CARB 0.1W 5% 1KΩ   |
| R1234   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1235   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1236   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1237   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1238   | ERJ6GMYJ104  | S.M. CARB 0.1W 5% 100KΩ |
| R1239   | ERJ6GMYJ564  | S.M. CARB 0.1W 5% 560KΩ |
| R1240   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1241   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1242   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1243   | ERJ6GMYJ752  | S.M. CARB 0.1W 5% 7K5Ω  |
| R1244   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1245   | ERJ6GMYJ101  | S.M. CARB 0.1W 5% 100Ω  |
| R1246   | ERJ6GMYJ122  | S.M. CARB 0.1W 5% 1K2Ω  |
| R1247   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1248   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1249   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1250   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1251   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1252   | ERJ6GMYJ822  | S.M. CARB 0.1W 5% 8K2Ω  |
| R1253   | ERJ6GMYJ471  | S.M. CARB 0.1W 5% 470Ω  |
| R1254   | ERJ6GMYOR00  | S.M. WIRE LINK          |
| R1255   | ERJ6GMYJ103  | S.M. CARB 0.1W 5% 10KΩ  |
| R1256   | ERJ6GMYJ183  | S.M. CARB 0.1W 5% 18KΩ  |
| R1257   | ERJ6GMYJ472  | S.M. CARB 0.1W 5% 4K7Ω  |
| R1258   | ERJ6GMYJ822  | S.M. CARB 0.1W 5% 8K2Ω  |

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| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R1259   | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω  |
| R1260   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R1261   | ERJ6GMYJ472 | S.M.CARB 0.1W 5% 4K7Ω  |
| R1262   | ERJ6GMYJ123 | S.M.CARB 0.1W 5% 12KΩ  |
| R1263   | ERJ6GMYJ563 | S.M.CARB 0.1W 5% 56KΩ  |
| R1264   | ERJ6GMYJ681 | S.M.CARB 0.1W 5% 680Ω  |
| R1266   | ERJ6GMYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R1267   | ERJ6GMYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R1268   | ERJ6GMYJ223 | S.M.CARB 0.1W 5% 22KΩ  |
| R1269   | ERJ6GMYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |
| R1270   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R1271   | ERJ6GMYJ392 | S.M.CARB 0.1W 5% 3K9Ω  |
| R1272   | ERJ6GMYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R1273   | ERJ6GMYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R1275   | ERJ6GMYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R1276   | ERJ6GMYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1277   | ERJ6GMYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1278   | ERJ6GMYJ823 | S.M.CARB 0.1W 5% 82KΩ  |
| R1279   | ERJ6GMYJ184 | S.M.CARB 0.1W 5% 180KΩ |
| R1280   | ERJ6GMYJ123 | S.M.CARB 0.1W 5% 12KΩ  |
| R1281   | ERJ6GMYJ333 | S.M.CARB 0.1W 5% 33KΩ  |
| R1282   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R1284   | ERJ6GMYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R1285   | ERJ6GMYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R1287   | ERJ6GMYJ473 | S.M.CARB 0.1W 5% 47KΩ  |
| R1288   | ERJ6GMYJ563 | S.M.CARB 0.1W 5% 56KΩ  |
| R1289   | ERJ6GMYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R1290   | ERJ6GMYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R1291   | ERJ6GMYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R1292   | ERJ6GMYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R1293   | ERJ6GMYJ153 | S.M.CARB 0.1W 5% 15KΩ  |
| R1294   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R1296   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R1297   | ERJ6GMY0R00 | S.M. WIRE LINK         |

| Ref No. | Part No.    | Description            |
|---------|-------------|------------------------|
| R1298   | ERJ6GMYJ152 | S.M.CARB 0.1W 5% 1K5Ω  |
| R1299   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R3101   | ERJ6GMYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3102   | ERJ6GMYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3103   | ERJ6GMYJ272 | S.M.CARB 0.1W 5% 2K7Ω  |
| R3108   | ERJ6GMYJ101 | S.M.CARB 0.1W 5% 100Ω  |
| R3109   | ERJ6GMYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3112   | ERJ6GMYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3115   | ERJ6GMYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3116   | ERJ6GMYJ750 | S.M.CARB 0.1W 5% 75Ω   |
| R3118   | ERJ6GMYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R3120   | ERJ6GMYJ103 | S.M.CARB 0.1W 5% 10KΩ  |
| R3121   | ERJ6GMYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3122   | ERJ6GMYJ104 | S.M.CARB 0.1W 5% 100KΩ |
| R3123   | ERJ6GMYJ393 | S.M.CARB 0.1W 5% 39KΩ  |
| R3124   | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω  |
| R3125   | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω  |
| R3126   | ERJ6GMYJ273 | S.M.CARB 0.1W 5% 27KΩ  |
| R3127   | ERJ6GMYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3128   | ERJ6GMYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3131   | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω  |
| R3132   | ERJ6GMYJ562 | S.M.CARB 0.1W 5% 5K6Ω  |
| R3134   | ERJ6GMYJ222 | S.M.CARB 0.1W 5% 2K2Ω  |
| R3301   | ERJ6GMYJ102 | S.M.CARB 0.1W 5% 1KΩ   |
| R3302   | ERJ6GMYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3303   | ERJ6GMYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3304   | ERJ6GMYJ331 | S.M.CARB 0.1W 5% 330Ω  |
| R3305   | ERJ6GMY0R00 | S.M. WIRE LINK         |
| R3306   | ERJ6GMYJ471 | S.M.CARB 0.1W 5% 470Ω  |
| R3308   | ERJ6GMYJ221 | S.M.CARB 0.1W 5% 220Ω  |
| R3309   | ERJ6GMYJ223 | S.M.CARB 0.1W 5% 22KΩ  |
| R3310   | ERJ6GMYJ223 | S.M.CARB 0.1W 5% 22KΩ  |